



SECTION 02

PASSIVE ELECTRONIC COMPONENTS



02

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02 COMPONENTS

→ Capacitors

How to read Capacitor Codes

Code	Tolerance
B	+/- 0.10%
C	+/- 0.25%
D	+/- 0.5%
E	+/- 0.5%
F	+/- 1%
G	+/- 2%
H	+/- 3%
J	+/- 5%
K	+/- 10%
M	+/- 20%
N	+/- 0.05%
P	+100% -0%
Z	+80% -20%

Generally, a capacitor fails under its load conditions but, if removed, it may still be accurately measurable. Grab an LCR or Capacitance meter and simply read off the value of the capacitor you wish to replace. This is assuming the capacitor you are replacing is not damaged beyond the point of a reasonably accurate reading, so double check it. This may at least help you with determining the location of the decimal point or confirming what value you have derived from the jacket code.

Larger capacitors, like electrolytics, simply have the value printed on them clearly, such as 10uF, but smaller types often use an obscure number system on them:

The following is a general guide only and not necessarily applicable to all capacitors !

2 Numbers: These are read as Pico-Farads.

An example: 47 printed on a small disk can be assumed to be 47pF

3 Numbers: The first two are the 1st and 2nd significant digits, then its the multiplier.

Most of the time the last digit tells you how many zeros to write after the first two digits

(Please note: this is not ALWAYS the case. eg. an extra digit might be indicating an ESR value, so be wary).

Multiplier: A capacitor marked 104 is 10 with 4 more zeros or 100,000pF which is otherwise referred to as a 0.1uF capacitor.

Tolerance code: is generally given by a single letter.

Example: a 104J is a 10,000 pF with +/-5% tolerance.

Voltage Code: If the voltage is not written directly on the capacitor, then it may be shown as an alpha code. We have listed here for your reference.

Exceptions: There are many more number systems seen on caps than just the above.

There is sometimes a letter-number-letter suffix that gives additional details...

Example. A 224 Z5U would be a 220,000 pF (or .22 uF) cap with a low temperature rating of -10°C a high temperature rating of +85°C and a tolerance of +22% and -56% ! A more popular rating would be the EIA system.

It typically starts with an R. Example:

R DM 15 F 471(R) J 5 O (C) This number could mean the following:

R	tells us this is an EIA code
DM	Dipped case style (CM is molded case style)
15	is the case size code
F	is the dielectric code
471R	The R is a decimal point (if used) First two digits form the significant value Third is the multiplier, (470pF)
J	is the capacitance tolerance code (J is a 5%)
5	is the DC working voltage in hundreds of volts (500V)
O	is the temperature range
C	C is crimped leads, S straight.


Capacitance Conversion Table

0.000,001μF =	0.001nF =	1pF	1R0
0.000,01μF =	0.01nF =	10pF	100
0.000,1μF =	0.1nF =	100pF	101
0.001μF =	1nF =	1,000pF	102
0.01μF =	10nF =	10,000pF	103
0.1μF =	100nF =	100,000pF	104
1μF =	1,000nF =	1,000,000pF	105
10μF =	10,000nF =	10,000,000pF	106
100μF =	100,000nF =	100,000,000pF	107

COLOUR CODES


	Black	Brown	Red	Orange	Yellow	Green	Blue	Violet	Grey	White
	0	1	2	3	4	5	6	7	8	9

471
470pF




TM470

1
1pF




TH1

10
10pF




TH10

103J
10,000pF
(10nF)
J = ± 5%




NL.01

563K
56,000pF
(56nF)
K = ± 10%



NH.056

472K = 4700pF
4.7nF (.0047uF)
K = 10%
2000V (DC)



MEF.0047

CAPACITOR
VALUES



→ Capacitors

↓ Variable

PVC TUNERS

Tuning capacitor Common mechanical Capacitor type to suit AM-FM radios. Current stock: 7
Pin 20x12mm*

Code
PVC5

Buy Quantities
For a Discount
Please Enquire
(Not Assorted Values)



TRIMMER CAPACITORS

Capacitance	Temp Coef	Code
1.5 - 5pf	NPO	TC50
2.7 - 10pf	NPO	TC100
4.2 - 20pf	N750	TC200
5.2 - 30pf	N750	TC300
6.8 - 45pf	N1200	TC450
9.8 - 60pf	N1200	TC600



↓ Ceramic

CERAMIC MONOLITHIC 50V

TM SERIES LOW PROFILE CERAMIC CHIP CAPACITORS

Improved specifications, temperatures, tolerances. Ideal for general replacement of ceramic capacitors, etc.

Value	Code
100pf	TM100
220pf	TM220
330pf	TM330
390pf	TM390
470pf	TM470
680pf	TM680
1nf	TM.001
2.2nf	TM.0022
3.3nf	TM.0033
3.9µf	TM.0039
4.7nf	TM.0047
6.8nf	TM.0068
10nf	TM.01
22nf	TM.022
33nf	TM.033
47nf	TM.047
100nf	TM.1
220nf	TM.22
330nf	TM.33
470nf	TM.47
1µf	TM1



CERAMIC 500V

General purpose replacement ceramics.

Value	Code
1pf	TH1
1.2µf	TH1.2
1.5pf	TH1.5
1.8pf	TH1.8
2.2pf	TH2.2
2.7pf	TH2.7
3.3pf	TH3.3
3.9pf	TH3.9
4.7pf	TH4.7
5.6pf	TH5.6
6.8pf	TH6.8
8.2pf	TH8.2
10pf	TH10
12pf	TH12
15pf	TH15
18pf	TH18
22pf	TH22
27pf	TH27
33pf	TH33



Value	Code
39pf	TH39
47pf	TH47
56pf	TH56
68pf	TH68
82pf	TH82
100pf	TH100
120pf	TH120
150pf	TH150
180pf	TH180
220pf	TH220
270pf	TH270
330pf	TH330
390pf	TH390
470pf	TH470
560pf	TH560
680pf	TH680
820pf	TH820
1nf	TH1000

CERAMIC 2KV (& 3KV Panasonic)

Suit Pulse circuits. "WR" Series. Low loss with minimal drift.

Value	Code
220 pf	WR220
270 pf	WR270
330 pf	WR330
390 pf	WR390
470 pf	WR470
560 pf	WR560
680 pf	WR680
820 pf	WR820
1000 pf	WR1000
1200 pf	WR1200
1500 pf	WR1500
1800 pf	WR1800
2200 pf	WR2200
2700 pf	WR2700
3300 pf	WR3300
3900 pf	WR3900
4700 pf	WR4700
5600 pf	WR5600
6800 pf	WR6800
8200 pf	WR8200

*3KV TYPE - Suit Panasonic

Value	Code
*3600 pf	DE3600



CERAMIC 6KV

Suit Pulse circuits. "DE" Series.

eg. Horizontal/Vertical deflection circuits
Low loss with minimal temperature drift.

Value	Code
100 pf	DE100
150 pf	DE150
220 pf	DE220
330 pf	DE330
390 pf	DE390
470 pf	DE470
560 pf	DE560
680 pf	DE680
820 pf	DE820
1000 pf	DE1000
1200 pf	DE1200
1500 pf	DE1500
1800 pf	DE1800
2200 pf	DE2200
3300 pf	DE3300
*3600 pf	DE3600
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4700 pf	DE4700
5600 pf	DE5600
6800 pf	DE6800
8200 pf	DE8200





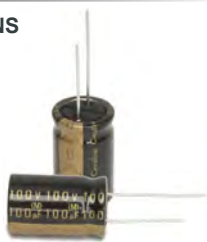
02 COMPONENTS

↓ Cerafine

SPECIALIST AUDIO CAPACITORS

ALSO SUITABLE FOR OTHER APPLICATIONS

In some cases, a standard capacitor may not be ideally suited, so we have stock of some very specialised caps. "Fast" Caps are High-Current types ideal coupling and filter capacitors in timing circuits & high-end audio. Range was suggested by Customers for valves and by Stones Sound Studio for high-end audiophile applications, etc.



ELNA CERAFINE ELECTROLYTIC

HIGH-END SUPER-FAST AUDIO Made in Japan. Contains super fine ceramic particles which improve the discharging speed. Ideal for upgrade of High-End; valve, transistor preamps, amplifiers, filters and power supplies. Beautifully suited for DC coupling. Due to their mechanical build they are less sensitive to externally generated noise resulting in even lower distortion. These capacitors are as good as the Black Gates series but at a lower price. A premium quality product exclusive. **100V 85°C**

Value	Code
.47uf	CER.47
1uf	CER1
2.2uf	CER2.2
3.3uf	CER3.3
4.7uf	CER4.7
10uf	CER10
22uf	CER22
33uf	CER33
47uf	CER47
100uf	CER100
220uf	CER220

↓ Silver Mica

SILVER MICA CAPACITORS 500V

Absolute best sounding capacitors for audio, tone and filter circuits, etc. Also ideal for Oscillators and TX ccts. Sourced from the USA, for HOT valves. www.simicelectronics.com MIL-C-5 RS153. Indian Ruby Muscovite & Epoxy Resin Dipped Superior heat, moisture, shock resistance. High stability -55 to 135°C Tolerance ±5% Long life reliability, audiophile sound.

Value	Code
10pf	SMC10
22pf	SMC22
33pf	SMC33
47pf	SMC47
68pf	SMC68
100pf	SMC100
120pf	SMC120
150pf	SMC150
220pf	SMC220
250pf	SMC250
390pf	SMC390
500pf	SMC500
680pf	SMC680
1000pf	SMC1000



↓ Polypropylene

METALISED POLYPROPYLENE 250VDC/160VAC

Value	Code
10nF	PMT.01
15nF	PMT.015
22nF	PMT.022
33nF	PMT.033
47nF	PMT.047
68nF	PMT.068
100nF	PMT.1
150nF	PMT.15
220nF	PMT.22
330nF	PMT.33
470nF	PMT.47
500nF	PMT.5
680nF	PMT.68
820nF	PMT.82
1µF	PMT1
1.5µF	PMT1.5
2.2µF	PMT2.2
2.7µF	PMT2.7
3.3µF	PMT3.3
3.9µF	PMT3.9
4.7µF	PMT4.7
5.6µF	PMT5.6
6.8µF	PMT6.8
8.2µF	PMT8.2
10µF	PMT10
12µF	PMT12
15µF	PMT15
20µF	PMT20

Non-Inductive.
Polyester tape, epoxy resin. Suit Audio, etc.



(SCR) METALISED POLY' 400Vdc/250Vac

Premium Audiophile grade. Made in France. These capacitors use the highest grade aluminium metalised polypropylene for impressive electrical & mechanical specs'. As used in our HDS audio crossovers.

Value	Code
0.15µF	SCR.15
0.27µF	SCR.27
1µF	SCR1
1.6µF	SCR1.6
2.2µF	SCR2.2
3.0µF	SCR3.0
3.3µF	SCR3.3
3.9µF	SCR3.9
4.7µF	SCR4.7
5.6µF	SCR5.6
6.8µF	SCR6.8
7.5µF	SCR7.5
8.2µF	SCR8.2
10µF	SCR10
12µF	SCR12
15µF	SCR15
20µF	SCR20
27µF	SCR27
33µF	SCR33
47µF	SCR47



↓ Polypropylene

POLYPROPYLENE 600VDC "ORANGE DROPS"

"Orange Drops" is the nickname for Spragues classic valve type polypropylene film capacitors, due to their colour and shape. This all new PPL range of 715 polypropylene film capacitors justify this reputation of sound quality and long-term reliability. Suitable for any Guitar and home HiFi valve amplifier restoration.

Value	Voltage	Code
.001µF	600V	.001PPL600
.0015µF	600V	.0015PPL600
.0022µF	600V	.0022PPL600
.0033µF	600V	.0033PPL600
.0047µF	600V	.0047PPL600
.01µF	600V	.01PPL600
.015µF	600V	.015PPL600
.022µF	600V	.022PPL600
.047µF	600V	.047PPL600
.068µF	600V	.068PPL600
.1µF	600V	.1PPL600
.15µF	600V	.15PPL600
.22µF	600V	.22PPL600
.47µF	400V	.47PPL400

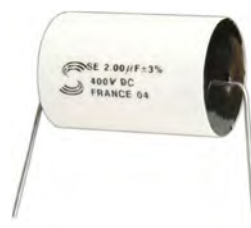


(SCR) TIN-FOIL POLYPROP' FILM

"SM" AUDIOPHILE PERFORMANCE CAPACITOR

Made in France, these capacitors are renowned for their high electrical performance and stability, insignificant dielectric absorption and no piezoelectric effect. Very low series inductance or resistance and very high current capabilities. Ideal for speaker crossovers, audio coupling and high precision applications in Audio.

Value	Type	Voltage	Code
.01µF	SN	1200V	TN.01
.022µF	SM	630V	TN.022
.047µF	SM	630V	TN.047
.1µF	SM	630V	TN.1
.22µF	SM	630V	TN.22
.33µF	SM	630V	TN.33
.47µF	SM	630V	TN.47
.68µF	SM	630V	TN.68
.82µF	SM	630V	TN.82
1µF	SM	630V	TN1.0
1.5µF	SE	400V	TN1.5
2.0µF	SE	400V	TN2.0
3.3µF	SE	100V	TN3.3
3.9µF	SE	100V	TN3.9
4.7µF	SE	100V	TN4.7

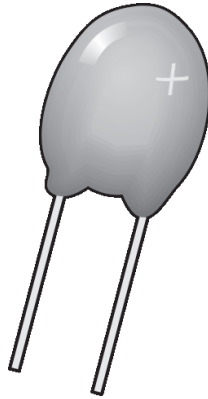




↓ Tantalum

TANTALUM CAPACITORS

Value	Volts	Code
100nf	35v	.1T35V
220nf	35v	.22T35V
330nf	35v	.33T35V
470nf	35v	.47T35V
1µf	35v	1T35V
2.2µf	16v	2.2T16V
2.2µf	35v	2.2T35V
3.3µf	16v	3.3T16V
3.3µf	35v	3.3T35V
4.7µf	16v	4.7T16V
4.7µf	35v	4.7T35V
6.8µf	16v	6.8T16V
6.8µf	35v	6.8T35V
10µf	16v	10T16V
10µf	25v	10T25V
10µf	35v	10T35V
15µf	16v	15T16V
15µf	25v	15T25V
15µf	35v	15T35V
22µf	16v	22T16V
22µf	25v	22T25V
22µf	35v	22T35V
33µf	16v	33T16V
33µf	25v	33T25V
33µf	35v	33T35V
47µf	16v	47T16V
47µf	25v	47T25V
47µf	35v	47T35V
100µf	6v	100T6V
100µf	16v	100T16V



Buy Quantities
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Please Enquire
(Not Assorted Values)

↓ Polypropylene

POLYPROPYLENE 275VAC - LINE CAP

MAINS INTERFERENCE SUPPRESSION CAPACITORS
Self-healing, poly' film dielectric, flame retardant plastic case, designed for radio interference suppression & across-the-line cap' in business machines, monitors, appliances, fans, A/V equipment, thyristor and triac appliances such as dimmers etc.
RATING 275V AC 50Hz Vmax 1200VAC, 2000VDC

Value	Code
.0047µF	XGV.0047
.01µF	XGV.01
.022µF	XGV.022
.033µF	XGV.033
.047µF	XGV.047
.068µF	XGV.068
.1µF	XGV.1
.22µF	XGV.22
.33µF	XGV.33
.47µF	XGV.47
.68µF	XGV.68
1µF	XGV1
2.2µF	XGV2.2



Buy Quantities
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Please Enquire
(Not Assorted Values)

POLYPROPYLENE - AXIAL 600VAC 2000VDC

Polypropylene 2KV high voltage caps used in TV's, etc.
Ideal as tuning capacitors in horizontal output stages.

Value	Code
.001µf (1.0nf)	KP.001
.0012µf (1.2nf)	KP.0012
.0015µf (1.5nf)	KP.0015
.0018µf (1.8nf)	KP.0018
.0022µf (2.2nf)	KP.0022
.0027µf (2.7nf)	KP.0027
.0033µf (3.3nf)	KP.0033
.0039µf (3.9nf)	KP.0039
.0047µf (4.7nf)	KP.0047
.0056µf (5.6nf)	KP.0056
.0068µf (6.8nf)	KP.0068
.0082µf (8.2nf)	KP.0082
.0091µf (9.1nf)	KP.0091
.0095µf (9.5nf)	KP.0095
.01µf (10nf)	KP.01
.011µf (11nf)	KP.011
.015µf (15nf)	KP.015
.022µf (22nf)	KP.022
.033µf (33nf)	KP.033
.039µf (39nf)	KP.039
.047µf (47nf)	KP.047



Buy Quantities
For a Discount
Please Enquire
(Not Assorted Values)

↓ Polypropylene

METALISED POLYPROP' MKP1 200-250VAC

MKP-1 Series (approval test - IEC384-16 / IEC68)
Quality, pulse application, deflection circuits in TV, electronics ballast, timing, oscillators, etc.

250 Vdc / 200 Vac

Value	Pitch	Code
0.047µF	15	.047MKP1-250
0.068µF	15	.068MKP1-250

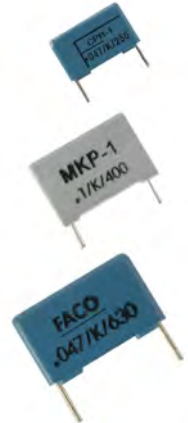
400 Vdc / 220 Vac

Value	Pitch	Code
.1µF		.1MKP1-400
0.15µF	15	.15MKP1-400
0.22µF	15	.22MKP1-400
0.33µF	22	.33MKP1-400
0.47µF	22	.47MKP1-400
0.68µF	22	.68MKP1-400
1µF	22	1MKP1-400
1.5µF	27	1.5MKP1-400
2.2µF	27	2.2MKP1-400

630 Vdc / 250 Vac

Value	Pitch	Code
0.047µF	15	.047MKP1-630
0.068µF	15	.068MKP1-630
0.15µF	22	.15MKP1-630
0.22µF	22	.22MKP1-630
0.33µF	27	.33MKP1-630
0.1µF	22	.1MKP1-1000

Buy Quantities
For a Discount
Please Enquire
(Not Assorted Values)



METALISED POLYPROP' MKP2 200-220VAC

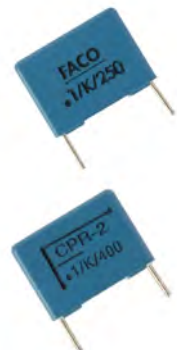
MKP-2 Series (approval test - IEC384-16 / IEC68)
European quality, pulse application, deflection circuits in TV, electronics ballast, snubber, SCR commutating circuits, applications high current.

250 Vdc / 200 Vac

Value	Pitch	Code
0.1	15	.1MKP2-250
0.15	15	.15MKP2-250

400 Vdc / 220 Vac

Value	Pitch	Code
0.01	15	.01MKP2-400
0.1	15	.1MKP2-400
0.15	15	.15MKP2-400
0.22	22	.22MKP2-400
0.33	22	.33MKP2-400

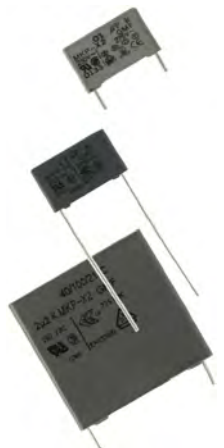


METALISED POLYPROP' MKPX2 275VAC

MKP-X2 Series Approvals - EN132400, VDE565-1
Mains interference suppression capacitor range.
All X2 capacitors have leads of 6mm length for PCB mount

Voltage	Value	Pitch	Code
275Vac	0.01	15	.01MKPX2-275
275Vac	0.022	15	.022MKPX2-275
275Vac	0.033	15	.033MKPX2-275
275Vac	0.047	15	.047MKPX2-275
275Vac	0.068	15	.068MKPX2-275
275Vac	0.1	15	.1MKPX2-275
275Vac	0.22	15	.22MKPX2-275
275Vac	0.33	15	.33MKPX2-275
275Vac	0.47	22	.47MKPX2-275
275Vac	0.68	27	.68MKPX2-275
275Vac	1	27	1MKPX2-275
275Vac	2.2	27	2.2MKPX2-275

Buy Quantities
For a Discount
Please Enquire
(Not Assorted Values)





↓ Polyester

POLYESTER 63VAC 100VDC

Value	Code
1nf	NL.001
1.2nf	NL.0012
1.5nf	NL.0015
1.8nf	NL.0018
2.2nf	NL.0022
2.7nf	NL.0027
3.3nf	NL.0033
3.9nf	NL.0039
4.7nf	NL.0047
5.6nf	NL.0056
6.8nf	NL.0068
8.2nf	NL.0082
10nf	NL.01
15nf	NL.015
22nf	NL.022
33nf	NL.033
39nf	NL.039
47nf	NL.047
68nf	NL.068
82nf	NL.082
100nf	NL.1
220nf	NL.22
330nf	NL.33
390nf	NL.39
470nf	NL.47
560nf	NL.56
680nf	NL.68
820nf	NL.82
1µF	NL1
1.5µF	NL1.5
2.2µF	NL2.2
3.3µF	NL3.3
4.7µF	NL4.7
5.6µF	NL5.6
6.8µF	NL6.8
8.2µF	NL8.2
10µF	NL10



POLYESTER 250VAC 630VDC

Value	Code
1nf	NH.001
1.2nf	NH.0012
1.5nf	NH.0015
1.8nf	NH.0018
2.2nf	NH.0022
2.7nf	NH.0027
3.3nf	NH.0033
3.9nf	NH.0039
4.7nf	NH.0047
5.6nf	NH.0056
6.8nf	NH.0068
8.2nf	NH.0082
10nf	NH.01
15nf	NH.015
22nf	NH.022
33nf	NH.033
47nf	NH.047
56nf	NH.056
68nf	NH.068
82nf	NH.082
100nf	NH.1



Value	Code
220nf	NH.22
330nf	NH.33
390nf	NH.39
470nf	NH.47
650nf	NH.56
680nf	NH.68
820nf	NH.82
1µF	NH1

POLYESTER 600VAC 2000VDC

Value	Code
1nf	MEF.001
1.2nf	MEF.0012
1.5nf	MEF.0015
1.8nf	MEF.0018
2.2nf	MEF.0022
2.7nf	MEF.0027
3.3nf	MEF.0033
3.9nf	MEF.0039
4.7nf	MEF.0047
5.6nf	MEF.0056
6.8nf	MEF.0068
8.2nf	MEF.0082
10nf	MEF.01
15nf	MEF.015
22nf	MEF.022
33nf	MEF.033
39nf	MEF.039
47nf	MEF.047
56nf	MEF.056
68nf	MEF.068
82nf	MEF.082
100nf	MEF.1
220nf	MEF.22
330nf	MEF.33
390nf	MEF.39
470nf	MEF.47



Buy Quantities
For a Discount
Please Enquire
(Not Assorted Values)

POLYESTER MKT RANGE

Quality, excellent for multipurpose applications, blocking, coupling, bypassing, interference suppression, etc.

Code Breakdown Value (uf), Series, Pitch, Voltage.

Eg: .47MKT10-100 MKT-10 series (10mm pitch) 0.47uf 100V

POLYESTER MKT-5 (5mm Pitch)

63Vdc / 40Vac

Value	Code
1µF	1MKT5-63
2.2µF	2.2MKT5-63

100 Vdc / 63 Vac

0.001µF	.001MKT5-100
0.0015µF	.0015MKT5-100
0.0022µF	.0022MKT5-100
0.0033µF	.0033MKT5-100
0.0047µF	.0047MKT5-100
0.0068µF	.0068MKT5-100
0.01µF	.01MKT5-100
0.015µF	.015MKT5-100
0.022µF	.022MKT5-100
0.033µF	.033MKT5-100
0.047µF	.047MKT5-100
0.068µF	.068MKT5-100
0.1µF	.1MKT5-100
0.15µF	.15MKT5-100
0.22µF	.22MKT5-100
0.33µF	.33MKT5-100
0.47µF	.47MKT5-100

250 Vdc / 160 Vac

0.0068µF	.0068MKT5-250
0.011µF	.011MKT5-250
0.015µF	.015MKT5-250
0.022µF	.022MKT5-250
0.033µF	.033MKT5-250
0.068µF	.068MKT5-250
0.1µF	.1MKT5-250

400 Vdc / 200 Vac

0.001µF	.001MKT5-400
0.0015µF	.0015MKT5-400
0.0022µF	.0022MKT5-400
0.0033µF	.0033MKT5-400
0.0047µF	.0047MKT5-400
0.0068µF	.0068MKT5-400
0.01µF	.01MKT5-400
0.015µF	.015MKT5-400
0.022µF	.022MKT5-400
0.033µF	.033MKT5-400
0.047µF	.047MKT5-400

POLYESTER MKT-10 (10mm pitch)

100 Vdc / 63 Vac

Value	Code
0.33µF	.33MKT10-100
0.47µF	.47MKT10-100
0.68µF	.68MKT10-100

250 Vdc / 160 Vac

0.068µF	.068MKT10-250
0.1µF	.1MKT10-250
0.15µF	.15MKT10-250
0.22µF	.22MKT10-250
0.33µF	.33MKT10-250

400 Vdc / 200 Vac

0.015µF	.015MKT10-400
0.022µF	.022MKT10-400
0.033µF	.033MKT10-400
0.047µF	.047MKT10-400
0.068µF	.068MKT10-400
0.1µF	.1MKT10-400

630 Vdc / 220 Vac

0.0047µF	.0047MKT10-630
0.0068µF	.0068MKT10-630
0.01µF	.01MKT10-630
0.015µF	.015MKT10-630
0.022µF	.022MKT10-630
0.033µF	.033MKT10-630



PART#
MKT-5
MKT-10
MKT-15
MKT-22

PITCH
(5mm Pitch)
(10mm Pitch)
(15mm Pitch)
(22.5mm Pitch)

POLYESTER MKT-15 (15mm pitch)

100 Vdc / 63 Vac

Value	Code
0.33µF	.33MKT15-100
0.47µF	.47MKT15-100
1.5µF	1.5MKT15-100
2.2µF	2.2MKT15-100

250 Vdc / 160 Vac

0.1µF	.1MKT15-250
0.22µF	.22MKT15-250
0.15µF	.15MKT15-250
0.33µF	.33MKT15-250
0.68µF	.68MKT15-250
1µF	1MKT15-250
1.5µF	1.5MKT15-250
2.2µF	2.2MKT15-250

400 Vdc / 200 Vac

0.047µF	.047MKT15-400
0.068µF	.068MKT15-400
0.1µF	.1MKT15-400
0.15µF	.15MKT15-400

630 Vdc / 220 Vac

0.022µF	.022MKT15-630
0.033µF	.033MKT15-630
0.047µF	.047MKT15-630
0.068µF	.068MKT15-630

POLYESTER MKT-22 (22.5mm)

100 Vdc / 63 Vac

Value	Code
1µF	1MKT22-100
1.5µF	1.5MKT22-100
2.2µF	2.2MKT22-100
3.3µF	3.3MKT22-100

250 Vdc / 160 Vac

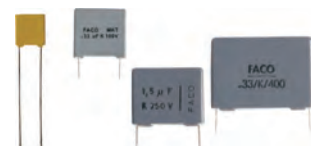
0.33µF	.33MKT22-250
0.47µF	.47MKT22-250
0.68µF	.68MKT22-250
1µF	1MKT22-250
1.5µF	1.5MKT22-250

400 Vdc / 200 Vac

0.22µF	.22MKT22-400
0.33µF	.33MKT22-400
0.47µF	.47MKT22-400

630 Vdc / 220 Vac

0.1µF	.1MKT22-630
0.15µF	.15MKT22-630
0.22µF	.22MKT22-630





↓ AC Motor Start

MAINS RATED (AC) CAPACITORS

AKA: MOTOR START CAPACITORS

Insulated mount / vertical mount Non-Inductive construction
Self-Healing property Flame-Retardant Plastic & Epoxy
High Moisture-Resistance Temp -25°C to +85°C Tolerance
±5% Short term Over-V tolerant Quality Assurance Premium
production. As used in air conditioners, etc. motor start, motor
run, across line, and many other GP applications.



250VAC VERTICAL MOUNT

WxHxDmm	Value	Code
34x24x14	2.0µf	2SML250
34x24x14	3.0µf	3SML250
38x24x12	4.0µf	4SML250
38x32x20	5.0µf	5SML250
38x27x15	6.0µf	6SML250
38x30x17	8.0µf	8SML250
38x30x20	10µf	10SML250
46x37x25	20µf	20SML250
46x39x27	25µf	25SML250
60x40x28	30µf	30SML250
60x48x34	40µf	40SML250

350VAC VERTICAL MOUNT

WxHxDmm	Value	Code
38x24x12	2.0µf	2SML350
38x26x14	3.0µf	3SML350
38x29x16	4.0µf	4SML350
38x32x20	5.0µf	5SML350
38x32x20	6.0µf	6SML350
38x35x23	8.0µf	8SML350
38x37x25	10µf	10SML350
60x39x28	20µf	20SML350
60x48x34	30µf	30SML350
60x54x39	40µf	40SML350

400VAC VERTICAL MOUNT

WxHxDmm	Value	Code
38x26x14	2.0µf	2SML400
38x30x17	3.0µf	3SML400
38x30x20	4.0µf	4SML400
38x34x21	5.0µf	5SML400
38x35x23	6.0µf	6SML400
46x37x25	8.0µf	8SML400
46x39x27	10µf	10SML400
60x48x34	20µf	20SML400

450VAC VERTICAL MOUNT

WxHxDmm	Value	Code
38x27x15	2.0µf	2SML450
38x30x20	3.0µf	3SML450
38x35x23	4.0µf	4SML450
38x37x25	5.0µf	5SML450
46x37x25	6.0µf	6SML450
46x39x27	8.0µf	8SML450
46x39x27	9.0µf	9SML500
60x39x28	10µf	10SML450
60x54x39	20µf	20SML450

450VAC CHASSIS MOUNT

DUAL 6.35mm TAGS & INSULATED BOLT	Value	Volts	Type	Size	Code
Non-Inductive construction	2.5µF	450V	6.4mm	30x57mm	2.5WTR450
Self-Healing property.	3µF	450V	6.4mm	30X57mm	3WTR450
Flame-Retardant Plastic	3.5µF	450V	6.4mm	30x57mm	3.5WTR450
& Epoxy. High Moisture-	4.5µF	450V	6.4mm	30x57mm	4.5WTR450
Resistance. Temp -25°C	6µF	450V	6.4mm	30x57mm	6WTR450
to +85°C. Tolerance	8µF	450V	6.4mm	35x67mm	8WTR450
±5%. Short term Over-V	10µF	450V	6.4mm	35x67mm	10WTR450
tolerant. Quality Assurance	12µF	450V	6.4mm	39x77mm	12WTR450
Premium production.	14µF	450V	6.4mm	39x77mm	14WTR450
As used in AirConditioners,	16µF	450V	6.4mm	39x77mm	16WTR450
etc. motor start, motor	18µF	450V	6.4mm	39x77mm	18WTR450
run, across line, and many	20µF	450V	6.4mm	42x83mm	20WTR450
other mains applications.	25µF	450V	6.4mm	42x83mm	25WTR450

250VAC HORIZONTAL MOUNT

WxHxDmm	Value	Code
33x20x12	2.0µf	2SMF250
33x24x14	3.0µf	3SMF250
38x24x13	4.0µf	4SMF250
38x28x16	6.0µf	6SMF250
38x28x16	8.0µf	8SMF250
38x30x20	10µf	10SMF250
46x37x27	20µf	20SMF250

350VAC HORIZONTAL MOUNT

WxHxDmm	Value	Code
38x24x13	2.0µf	2SMF350
38x25x14	3.0µf	3SMF350
38x28x16	4.0µf	4SMF350
38x30x20	5.0µf	5SMF350
38x30x21	6.0µf	6SMF350
38x35x22	8.0µf	8SMF350
38x36x25	10µf	10SMF350

400VAC HORIZONTAL MOUNT

WxHxDmm	Value	Code
38x25x14	2.0µf	2SMF400
38x30x18	3.0µf	3SMF400
38x30x20	4.0µf	4SMF400
38x30x21	5.0µf	5SMF400
38x35x23	6.0µf	6SMF400
46x37x25	8.0µf	8SMF400
46x39x27	10µf	10SMF400

450VAC HORIZONTAL MOUNT

WxHxDmm	Value	Code
38x28x16	2.0µf	2SMF450
38x30x21	3.0µf	3SMF450
38x35x22	4.0µf	4SMF450
38x36x25	5.0µf	5SMF450
46x37x25	6.0µf	6SMF450
46x39x27	8.0µf	8SMF450



250VAC CYLINDER TYPE

DxHmm	Value	Code
31x41	10µf	10SMR250
36x53	20µf	20SMR250
36x62	25µf	25SMR250
36x62	30µf	30SMR250
41x61	40µf	40SMR250
50x125	60µf	60SMR250

350VAC CYLINDER TYPE

DxHmm	Value	Code
36x53	10µf	10SMR350
36x62	20µf	20SMR350
41x61	25µf	25SMR350
41x61	30µf	30SMR350
46x77	40µf	40SMR350
52x90	60µf	60SMR350
52x115	100µf	100SMR350

400VAC CYLINDER TYPE

DxHmm	Value	Code
36x53	10µf	10SMR400
41x61	20µf	20SMR400
46x77	25µf	25SMR400
46x77	30µf	30SMR400
52x90	40µf	40SMR400
50x125	60µf	60SMR400

450VAC CYLINDER TYPE

DxHmm	Value	Code
25x40	3.1µf	3.1SMR450
25x40	3.2µf	3.2SMR450
25x40	5.0µf	5SMR450
30x40	6.0µf	6SMR450
36x62	8.0µf	8SMR450
50x90	20µf	20SMR450
40x60	16µf	16SMR450
45x89	30µf	30SMR450
45x89	36µf	36SMR450

500VAC CYLINDER TYPE

DxHmm	Value	Code
25x40	2µf	2SMR500
25x40	2.5µf	2.5SMR500

**ORDER IN QUANTITIES TO
RECEIVE A DISCOUNT
PLEASE ENQUIRE**





02 COMPONENTS

↓ Electrolytic Axial

AXIAL RT CAPACITORS

Axial lead terminated for horizontal mount on strip terminals, etc. **Sizes not listed due to variable stock availability.**

Value	Volts	Code
.47µF	63v	.47RT63
1µF	63v	1RT63
2.2µF	63v	2.2RT63
3.3µF	16v	3.3RT16
4.7µF	63v	4.7RT63
10µF	63v	10RT63
22µF	63v	22RT63
33µF	35v	33RT35
33µF	63v	33RT63
47µF	16v	47RT16
47µF	25v	47RT25
47µF	63v	47RT63
47µF	160v	47RT160
100µF	16v	100RT16
100µF	25v	100RT25
100µF	63v	100RT63
220µF	25v	220RT25
220µF	63v	220RT63
330µF	25v	330RT25
470µF	16v	470RT16
470µF	25v	470RT25
470µF	63v	470RT63
1000µF	16v	1000RT16
1000µF	25v	1000RT25
1000µF	63v	1000RT63
2200µF	16v	2200RT16
2200µF	25v	2200RT25
2200µF	63v	2200RT63
4700µF	25v	4700RT25



"ATOM" AXIAL ELECTROLYTICS

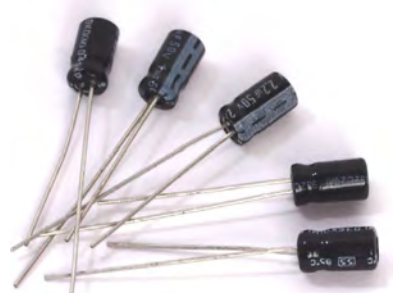
Sprague Type TVA Atom Aluminum Tubular Axial Electrolytic Capacitors. Excellent sonics for Tube Guitar Amps and audiophile home Hi-Fi. These sturdy, axial lead, aluminium electrolytic capacitors are preferred by most craftsmen for authentic vintage guitar amp and hi-fi restorations. Many of the best sounding classic guitar amps by Fender, Ampeg, Magatone, Valco and many others used Sprague Atom series electrolytics.

Value	Volts	Code
8µF	150V	8ATM150
8µF	450V	8ATM450
10µF	150V	10ATM150
10µF	500V	10ATM500
16µF	475V	16ATM475
20µF	500V	20ATM500
20µF	600V	20ATM600
25µF	25V	25ATM25
25µF	50V	25ATM50
30µF	500V	30ATM500
40µF	500V	40ATM500
50µF	50V	50ATM50
80µF	450V	80ATM450
100µF	100V	100ATM100
100µF	350V	100ATM350
100µF	450V	100ATM450
250µF	25V	250ATM25

↓ Electrolytic Radial Miniature

SS-R SERIES MINIATURE ELECTROLYTIC CAPACITORS

Developed for high density electronic equipment with max space efficiency. Temp -40 g +85°C Tolerance ±20% (120Hz 25°C)



Value	Volts	Size	Code
.1 µF	50V	4.2x7.5	.1SSR50
.22 µF	50v	4.2x7.5	.22SSR50
.33 µF	63v	4.2x7.5	.33SSR50
.47 µF	50v	4.2x7.5	.47SSR50
1 µF	50v	4.2x7.5	1SSR50
2.2 µF	50v	4.2x7.5	2.2SSR50
3.3 µF	63v	5.2x7.5	3.3SSR63
4.7 µF	25v	4.2x7.5	4.7SSR25
4.7 µF	50v	4.2x7.5	4.7SSR50
4.7 µF	63v	6.5x7.5	4.7SSR63
10 µF	16v	4.2x7.5	10SSR16
10 µF	25v	4.2x7.5	10SSR25
10 µF	35v	5.2x7.5	10SSR35
10 µF	50v	5.2x7.5	10SSR50
22 µF	16v	4.2x7.5	22SSR16
22 µF	25v	5.2x7.5	22SSR25
33 µF	16v	5.2x7.5	33SSR16
33 µF	25v	6.5x7.5	33SSR25
47 µF	10v	5.2x7.5	47SSR10
47 µF	16v	6.5x7.5	47SSR16
47 µF	25v	6.5x7.5	47SSR25
100 µF	16v	7.0x7.5	100SSR16

↓ Electrolytic Axial Non-Polarised

AXIAL NON-POLARISED

Axial lead terminated for horizontal mount As used in speaker cross-overs, etc.

Value	Size	Code
1µF	8x17	1RY100
2.2µF	8x17	2.2RY100
3.3µF	8x19	3.3RY100
3.9µF	8x19	3.9RY100
4.7µF	8x19	4.7RY100
6.8µF	10x19	6.8RY100
10µF	10x19	10RY100
15µF	10x19	15RY100
22µF	10x24	22RY100
33µF	13x27	33RY100
47µF	13x27	47RY100
68µF	16x34	68RY100
100µF	16x34	100RY100
150µF	16x34	150RY100
220µF	18x40	220RY100
330µF	18x40	330RY100
470µF	22x50	470RY100



↓ Electrolytic Radial Non-Polarised

50V NON POLARISED

Suit applications in TV. Audio, Speakers, etc. µF

Value	Code
.47µF	.47NP50
1µF	1NP50
2.2µF	2.2NP50
3.3µF	3.3NP50
4.7µF	4.7NP50
6.8µF	6.8NP50
10µF	10NP50
22µF	22NP50
33µF	33NP50
47µF	47NP50
100µF	100NP50
220µF	220NP50
330µF	330NP50
470µF	470NP50



Buy Quantities For a Discount Please Enquire (Not Assorted Values)

63V NON POLARISED

BI-POLAR TV Deflection Caps High Current. High-F High grade.

Value	Code
2.2µF	2.2BP63
3.3µF	3.3BP63
4.7µF	4.7BP63
6.8µF	6.8BP63
10µF	10BP63
15µF	15BP63



100V NON POLARISED

Radial general purpose Electrolytic Suit most circuits, TV, Audio, etc. All values are in µF and are 100V

Value	Code
0.47µF	.47NP100
1µF	1NP100
2.2µF	2.2NP100
3.3µF	3.3NP100
4.7µF	4.7NP100
10µF	10NP100
22µF	22NP100
33µF	33NP100
47µF	47NP100
100µF	100NP100



↓ Electrolytic Radial

HSW SERIES ELECTROLYTIC

"Snap-In" PCB type Electrolytic capacitors. 105°C (TKR Spec'.)

Value	Volts	Size	Code
47µF	400v	22x25	47HSW400
56µF	400v	22x25	56HSW400
82µF	450v	25x25	82HSW450
100µF	400v	25x25	100HSW400
150µF	200v	22x32	150HSW200
150µF	450v	25x45	150HSW450
220µF	200v	22x25	220HSW200
220µF	400v	30x35	220HSW400
220µF	450v	25x50	220HSW450
330µF	200v	22x30	330HSW200
330µF	400v	30x52	330HSW400
470µF	350v	35x47	470HSW350
470µF	450v	35x52	470HSW450
560µF	200v	25x35	560HSW200
680µF	200v	30x30	680HSW200
680µF	250v	35x30	680HSW250
820µF	250v	30x36	820HSW250
1000µF	100v	26x45	1000HSW100
1000µF	200v	30x41	1000HSW200
15,000µF	25v	25x45	15000HSW25
1500µF	200v	35x46	1500HSW200
2200µF	63v	25x30	2200HSW63
2200µF	100v	30x36	2200HSW100
3300µF	63v	25x51	3300HSW63
3300µF	100v	30x46	3300HSW100
4700µF	100v	30x52	4700HSW100
6800µF	63v	30x52	6800HSW63
10,000µF	25v	25x51	10000HSW25
10,000µF	63v	30x50	10000HSW63
10,000µF	100v	35x72	10000HSW100





↓ Electrolytic Radial

TK-R ELECTROLYTIC 105°

Higher quality capacitors for precision applications 105° Operating temperature. TKR=LEADS or HSW=SNAP-IN:

TKR Capacitors are the RADIAL Lead HSW which are Snap-In PCB Types.

SIZES:

Sizes quoted here are as per the Jamicon Engineering catalogue listed specifications. Actual sizes may vary by up to 10%

Value	Volts	Size	Code
.1µf	100v	5x11	.1TKR100
.22µf	100v	5x11	.22TKR100
.33µf	100v	5x12	.33TKR100
.47µf	63v	5x11	.47TKR63
.47µf	100v	5x11	.47TKR100
.47µf	250v	6.3x11	.47TKR250
.47µf	400v	8x11	.47TKR400
1µf	63v	5x11	1TKR63
1µf	100v	5x11	1TKR100
1µF	160v	5x11	1TKR160
1µf	250v	6.3x11	1TKR250
1µf	350v	8x11	1TKR350
1µf	400v	8x11	1TKR400
1µf	450v	10x13	1TKR450
2.2µf	63v	5x11	2.2TKR63
2.2µf	100v	5x11	2.2TKR100
2.2µf	200v	6.3x11	2.2TKR200
2.2µf	250v	6.3x11	2.2TKR250
2.2µf	350v	8x11	2.2TKR350
2.2µf	400v	10x13	2.2TKR400
2.2µf	450v	13x21	2.2TKR450
3.3µf	25v	5x11	3.3TKR25
3.3µf	63v	5x11	3.3TKR63
3.3µf	100v	5x11	3.3TKR100
3.3µf	200v	6.3x11	3.3TKR200
3.3µf	250v	8x11	3.3TKR250
3.3µf	400v	10x13	3.3TKR400
3.3µf	450v	13x21	3.3TKR450
4.7µf	63v	5x11	4.7TKR63
4.7µf	100v	5x11	4.7TKR100
4.7µf	160v	6.3x11	4.7TKR160
4.7µf	250v	8x11	4.7TKR250
4.7µf	350v	10x13	4.7TKR350
4.7µf	400v	10x16	4.7TKR400
4.7µf	450v	13x21	4.7TKR450
6.8µf	63v	5x12	6.8TKR63
6.8µf	100v	6.3x12	6.8TKR100
6.8µf	160v	10x13	6.8TKR160
6.8µf	250v	10x13	6.8TKR250
6.8µf	400v	13x22	6.8TKR400
10µf	16v	5x11	10TKR16
10µf	25v	5x11	10TKR25
10µf	63v	5x11	10TKR63
10µf	100v	6.3x11	10TKR100
10µf	160v	8x11	10TKR160
10µf	200v	10x13	10TKR200
10µf	250v	10x16	10TKR250
10µf	350v	10x21	10TKR350
10µf	400v	13x21	10TKR400
10µf	450v	16x25	10TKR450
22µf	16v	5x11	22TKR16
22µf	25v	5x11	22TKR25
22µf	35v	5x11	22TKR35
22µf	63v	5x11	22TKR63
22µf	100v	6.3x11	22TKR100
22µf	200v	10x21	22TKR200
22µf	250v	10x21	22TKR250
22µf	300v	13x26	22TKR350
22µf	400v	13x26	22TKR400
22µf	450v	16x32	22TKR450
33µf	35v	5x11	33TKR35
33µf	63v	6.3x11	33TKR63
33µf	100v	8x11	33TKR100
33µf	160v	10x21	33TKR160
33µf	200v	13x21	33TKR200

Value	Volts	Size	Code
33µf	250v	13x21	33TKR250
33µf	350v	16x25	33TKR350
33µf	400v	16x35	33TKR400
33µf	450v	18x35	33TKR450
47µf	16v	5x11	47TKR16
47µf	25v	5x11	47TKR25
47µf	35v	5x11	47TKR35
47µf	63v	6.3x11	47TKR63
47µf	100v	10x13	47TKR100
47µf	160v	13x21	47TKR160
47µf	200v	13x21	47TKR200
47µf	250v	13x26	47TKR250
47µf	350v	16x35	47TKR350
47µf	400v	18x35	47TKR400
47µf	400v	22x25	47HSW400
47µf	450v	16x42	47TKR450
56µf	16v	5x11	56TKR16
56µf	63v	8x12	56TKR63
56µf	400v	22x25	56HSW400
68µf	35v	6.3x12	68TKR35
68µf	63v	10x13	68TKR63
68µf	160v	13x27	68TKR160
68µf	250v	16x31	68TKR250
68µf	400v	16x36	68TKR400
68µf	450v	18x42	68TKR450
82µf	200v	16x25	82TKR200
82µf	400v	22x43	82TKR400
82µf	450v	25x25	82HSW450
100µf	16v	5x11	100TKR16
100µf	25v	6.3x11	100TKR25
100µf	35v	6.3x11	100TKR35
100µf	63v	10x13	100TKR63
100µf	100v	10x21	100TKR100
100µf	160v	13x26	100TKR160
100µf	200v	16x25	100TKR200
100µf	250v	16x32	100TKR250
100µf	350v	18x42	100TKR350
100µf	400v	20x40	100TKR400
100µf	400v	25x25	100HSW400
100µf	450v	25x50	100TKR450
120µf	400v	22x46	120TKR400
150µf	200v	22x32	150HSW200
150µf	400v	25x47	150TKR400
150µF	400v	30x25	150HSW400
150µf	450v	25x45	150HSW450
220µf	16v	6.3x11	220TKR16
220µf	25v	8x11	220TKR25
220µf	35v	8x11	220TKR35
220µf	63v	10x26	220TKR63
220µf	100v	13x25	220TKR100
220µf	160v	16x35	220TKR160
220µf	200v	18x42	220TKR200
220µf	200v	22x25	220HSW200
220µf	250v	18x43	220TKR250
220µf	400v	22x50	220TKR400
220µf	400v	30x35	220HSW400
220µf	450v	25x50	220HSW450
330µf	16v	8x11	330TKR16
330µf	25v	8x11	330TKR25
330µf	35v	10x13	330TKR35
330µf	63v	10x21	330TKR63
330µf	100v	13x26	330TKR100
330µf	160v	18x42	330TKR160
330µf	200v	18x43	330TKR200
330µf	200v	22x30	330HSW200
330µf	250v	22x50	330TKR250
330µf	400v	30x52	330HSW400
470µf	10v	6x11	470TKR10
470µf	16v	8x11	470TKR16
470µf	25v	10x13	470TKR25
470µf	35v	10x16	470TKR35
470µf	63v	13x21	470TKR63
470µf	100v	16x25	470TKR100
470µf	160v	22x40	470TKR160
470µf	200v	26x42	470TKR200
470µf	450v	35x52	470HSW450

Value	Volts	Size	Code
560µf	25v	10x16	560TKR25
560µf	63v	13x26	560TKR63
560µf	200v	25x35	560HSW200
680µf	16v	10x13	680TKR16
680µf	25v	10x21	680TKR25
680µf	63v	16x33	680TKR63
680µf	200v	30x30	680HSW200
680µf	250v	35x30	680HSW250
820µf	250v	30x36	820HSW250
1000µf	6v	8x11	1000TKR6
1000µf	10v	10x20	1000TKR10
1000µf	16v	10x16	1000TKR16
1000µf	25v	10x21	1000TKR25
1000µf	35v	13x21	1000TKR35
1000µf	63v	16x25	1000TKR63
1000µf	100v	16x42	1000TKR100
1000µf	100v	26x45	1000HSW100
1000µf	200v	30x41	1000HSW200
1000µf	250v	30x45	1000HSW250
1200µf	35v	13x25	1200TKR35
1500µf	35v	16x30	1500TKR35
1500µf	200v	35x46	1500HSW200
1800µf	35v	16x25	1800TKR35
2200µf	6v	10x16	2200TKR6
2200µf	10v	10x16	2200TKR10
2200µf	16v	13x21	2200TKR16
2200µf	25v	13x26	2200TKR25
2200µf	35v	16x25	2200TKR35
2200µf	63v	22x34	2200TKR63
2200µf	63v	25x30	2200HSW63
2200µf	100v	30x36	2200HSW100
3300µf	10v	13x21	3300TKR10
3300µf	16v	16x25	3300TKR16
3300µf	25v	16x25	3300TKR25
3300µf	35v	16x35	3300TKR35
3300µf	63v	25x51	3300HSW63
3300µf	100v	30x46	3300HSW100
4700µf	6v	13x21	4700TKR6
4700µf	10v	13x21	4700TKR10
4700µf	16v	16x25	4700TKR16
4700µf	25v	16x32	4700TKR25
4700µf	35v	18x35	4700TKR35
4700µf	63v	25x49	4700TKR63
4700µf	63v	36x60*	4700RPS63
4700µf	100v	30x52	4700HSW100
6800µf	10v	12x25	6800TKR10
6800µf	16v	16x32	6800TKR16
6800µf	25v	18x35	6800TKR25
6800µf	35v	22x45	6800TKR35
6800µf	63v	30x52	6800HSW63
10,000µf	6v	8x11	10000TKR6
10,000µf	10v	16x35	10000TKR10
10,000µf	16v	18x35	10000TKR16
10,000µf	25v	22x40	10000TKR25
10,000µf	25v	25x51	10000HSW25
10,000µf	63v	30x50	10000HSW63
10,000µf	100v	35x72	10000HSW100



* Screw terminal RPS Cap

15,000µF Radials

PCB Snap-In mounting pins.

Value	Volts	Size	Code
15,000µf	25v	25X45	15000HSW25
15,000µf	100v	50x90	15000RPS100

Buy Quantities
For a Discount
Please Enquire
(Not Assorted Values)



02 COMPONENTS

↓ Electrolytic Radial

LOW IMPEDANCE CAPS

SWITCH-MODE

105°C 4μA Leakage Ideal for use in switching power supplies and other high frequency applications. Low impedance and long life.



Buy Quantities
For a Discount
Please Enquire
(Not Assorted Values)



Value	Volts	Size	Code
1μf	63v	7x11	1EXR63
1μf	160v	7x11	1EXR160
2.2μf	63v	7x11	2.2EXR63
2.2μf	100v	7x11	2.2EXR100
2.2μf	160v	7x11	2.2EXR160
3.3μf	63v	8x11	3.3EXR63
3.3μf	160v	8x11	3.3EXR160
4.7μf	63v	5x11	4.7EXR63
4.7μf	100v	5x11	4.7EXR100
6.8μf	63v	5x11	6.8EXR63
6.8μf	100v	5x11	6.8EXR100
10μf	16v	5x11	10EXR16
10μf	25v	5x11	10EXR25
10μf	35v	5x11	10EXR35
10μf	63v	5x11	10EXR63
10μf	100v	7x11	10EXR100
22μf	16v	5x11	22EXR16
22μf	25v	5x11	22EXR25
22μf	35v	5x11	22EXR35
22μf	63v	6x11	22EXR63
22μf	100v	8x12	22EXR100
33μf	16v	5x11	33EXR16
33μf	25v	5x11	33EXR25
33μf	35v	6x11	33EXR35
33μf	50v	6x11	33EXR50
33μf	63v	6x11	33EXR63
33μf	100v	10x20	33EXR100
47μf	16v	5x11	47EXR16
47μf	25v	5x11	47EXR25
47μf	35v	6x11	47EXR35
47μf	50v	6x11	47EXR50
47μf	63v	8x12	47EXR63
47μf	100v	10x16	47EXR100
68μf	16v	6x11	68EXR16
68μf	25v	6x11	68EXR25
68μf	35v	6x11	68EXR35
68μf	50v	8x12	68EXR50
68μf	63v	10x14	68EXR63
68μf	100v	10x20	68EXR100
100μf	10v	10x20	100EXR10
100μf	16v	6x11	100EXR16
100μf	25v	6x11	100EXR25
100μf	35v	8x12	100EXR35
100μf	50v	10x14	100EXR50
100μf	63v	10x16	100EXR63
100μf	100v	13x22	100EXR100
150μf	10v	6x11	150EXR10
150μf	16v	8x12	150EXR16
150μf	25v	8x12	150EXR25
150μf	35v	10x12	150EXR35
150μf	50v	10x16	150EXR50
150μf	63v	10x20	150EXR63
150μf	100v	13x25	150EXR100

Value	Volts	Size	Code
220μf	10v	6x11	220EXR10
220μf	16v	8x11	220EXR16
220μf	25v	8x12	220EXR25
220μf	35v	10x16	220EXR35
220μf	50v	10x20	220EXR50
220μf	63v	13x22	220EXR63
220μf	100v	16x27	220EXR100
330μf	10v	8x12	330EXR10
330μf	16v	8x12	330EXR16
330μf	25v	8x14	330EXR25
330μf	35v	10x20	330EXR35
330μf	50v	10x20	330EXR50
330μf	63v	13x22	330EXR63
330μf	100v	16x26	330EXR100
470μf	10v	8x11	470EXR10
470μf	16v	10x13	470EXR16
470μf	25v	10x16	470EXR25
470μf	35v	10x20	470EXR35
470μf	63v	13x25	470EXR63
470μf	100v	18x32	470EXR100
680μf	10v	8x14	680EXR10
680μf	16v	10x16	680EXR16
680μf	25v	10x20	680EXR25
680μf	35v	13x22	680EXR35
680μf	50v	13x26	680EXR50
680μf	63v	16x27	680EXR63
680μf	100v	18x40	680EXR100
820μf	16v	10x16	820EXR16
820μf	25v	13x25	820EXR25
1000μf	10v	10x20	1000EXR10
1000μf	16v	10x20	1000EXR16
1000μf	25v	13x22	1000EXR25
1000μf	35v	13x25	1000EXR35
1000μf	50v	16x27	1000EXR50
1000μf	63v	16x32	1000EXR63
1500μf	10v	10x20	1500EXR10
1500μf	16v	13x21	1500EXR16
1500μf	25v	13x26	1500EXR25
1500μf	35v	16x27	1500EXR35
1500μf	50v	16x30	1500EXR50
1500μf	63v	18x33	1500EXR63
2200μf	10v	10x20	2200EXR10
2200μf	16v	13x22	2200EXR16
2200μf	25v	16x25	2200EXR25
2200μf	35v	16x32	2200EXR35
2200μf	50v	18x36	2200EXR50
2200μf	63v	18x40	2200EXR63
3300μf	10v	13x21	3300EXR10
3300μf	16v	16x27	3300EXR16
3300μf	25v	16x27	3300EXR25
3300μf	35v	18x36	3300EXR35
4700μf	10v	16x25	4700EXR10
4700μf	16v	16x32	4700EXR16
4700μf	25v	18x36	4700EXR25

TX SERIES ELECTROLYTIC RADIAL HIGH-RIPPLE

HIGH RIPPLE CURRENT - LOW E.S.R. - LONG LIFE

As used in Switch-Mode power supplies. Ballast capacitors, etc. 105°C



Buy Quantities
For a Discount
Please Enquire
(Not Assorted Values)

Value	Volts	Size	Code
1μF	450	10x13	1TX450
2.2μF	250	8x11	2.2TX250
2.2μF	400	10x13	2.2TX400
2.2μF	450	10x16	2.2TX450
2.2μF	200	8x11	3.3TX200
3.3μF	350	10x13	3.3TX350
3.3μF	400	10x16	3.3TX400
3.3μF	450	10x21	3.3TX450
4.7μF	250	10x16	4.7TX250
4.7μF	400	10x21	4.7TX400
4.7μF	450	13x21	4.7TX450
10μF	400	10x26	10TX400
10μF	450	13x21	10TX450
22μF	200	10x21	22TX200
22μF	350	13x21	22TX350
22μF	400	13x26	22TX400
22μF	450	16x25	22TX450
33μF	350	13x26	33TX350
33μF	400	13x26	33TX400
33μF	450	16x32	33TX450
47μF	250	13x26	47TX250
47μF	400	16x25	47TX400
47μF	450	18x32	47TX450
68μF	400	16x32	68TX400
68μF	450	18x35	68TX450
100μF	250	16x32	100TX250
100μF	400	18x35	100TX400
150μF	200	16x32	150TX200
150μF	250	18x32	150TX250
220μF	160	16x32	220TX160
220μF	200	18x35	220TX200
220μF	250	18x40	220TX250



Buy Quantities
For a Discount
Please Enquire
(Not Assorted Values)



↓ Electrolytic Radial

WL-R SERIES MINIATURE LOW-IMPEDANCE ELECTROLYTIC CAPACITORS

Jamicon WL Series Radial. Developed for modern switch mode power supply applications. Very rugged design with lower impedance at high frequency and high ripple current, packaged in a small case. Not suitable for audio. Temp -55 → +105°C



Buy Quantities
For a Discount
Please Enquire
(Not Assorted Values)

Tolerance ±20% (120Hz 25°C)

Value	Volts	Size	Code
.47 µf	100v	5x12	.47WLR100
1 µf	100v	5x12	1WLR100
2.2 µf	100v	5x12	2.2WLR100
3.3 µf	100v	5x12	3.3WLR100
4.7 µf	63v	5x12	4.7WLR63
4.7 µf	100v	6.5x12	4.7WLR100
10 µf	35v	5x12	10WLR35
10 µf	63v	6.5x12	10WLR63
10 µf	100v	8x12	10WLR100
22 µf	35v	5x12	22WLR35
22 µf	63v	6.5x12	22WLR63
22 µf	100v	10x13	22WLR100
33 µf	63v	6.5x12	33WLR63
47 µf	35v	5x12	47WLR35
47 µf	63v	8x12	47WLR63
47 µf	100v	10x13	47WLR100
100 µf	16v	5x12	100WLR16
100 µf	25v	6.5x12	100WLR25
100 µf	35v	8x12	100WLR35
100 µf	63v	10x13	100WLR63
100 µf	100v	13x21	100WLR100
220 µf	16v	6.5x12	220WLR16
220 µf	25v	8x12	220WLR25
220 µf	35v	8x16	220WLR35
220 µf	63v	10x20	220WLR63
330 µf	16v	8x12	330WLR16
330 µf	25v	10x13	330WLR25
330 µf	35v	10x16	330WLR35
330 µf	63v	13x26	330WLR63
470 µf	16v	10x13	470WLR16
470 µf	25v	10x16	470WLR25
470 µf	35v	10x21	470WLR35
470 µf	63v	13x21	470WLR63
680 µf	16v	10x16	680WLR16
680 µf	25v	10x21	680WLR25
680 µf	35v	16x16	680WLR35
680 µf	63v	13x31	680WLR63
1000 µf	16v	10x21	1000WLR16
1000 µf	25v	10x26	1000WLR25
1000 µf	35v	13x26	1000WLR35
1000 µf	63v	16x25	1000WLR63
1200 µf	35v	16x22	1200WLR35
1500 µf	35v	16x25	1500WLR35
2200 µf	16v	13x26	2200WLR16
2200 µf	25v	16x25	2200WLR25
2200 µf	35v	16x32	2200WLR35
2200 µf	63v	18x42	2200WLR63
4700 µf	16v	16x32	4700WLR16
4700 µf	25v	18x35	4700WLR25

↓ Cerafine

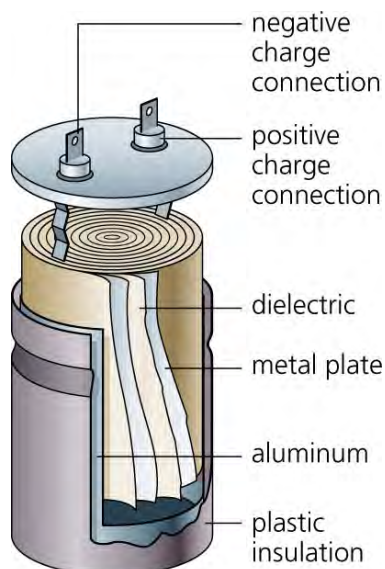
ELNA CERAFINE ELECTROLYTIC 100V 85°C

HIGH-END SUPER-FAST AUDIO

Made in Japan. Contains super fine ceramic particles which improve the discharging speed. Ideal for upgrade of High-End valve, transistor preamps, amplifiers, filters and power supplies. Beautifully suited for DC coupling. Due to their mechanical build they are less sensitive to externally generated noise resulting in even lower distortion. These capacitors are as good as the Black Gates series but at a lower price. A premium quality product exclusive.



Value	Code
.47uf	CER.47
1uf	CER1
2.2uf	CER2.2
3.3uf	CER3.3
4.7uf	CER4.7
10uf	CER10
22uf	CER22
33uf	CER33
47uf	CER47
100uf	CER100
220uf	CER220



↓ Electrolytic SMD

ELECTROLYTIC SMD

SURFACE MOUNT -

Compact & Ultracompact

Especially suitable for dual surface, high density boards. Will substitute most surface mount capacitor replacement. Anti-solvent materials. Tin can, plastic base, flat legs. Tolerance ±20%. -40 to +80°C

Code = Value-Range-Voltage.

Value	Volts	Size	Code
0.1µF	50V	4X5	.1MXM50
0.22µF	50V	4X5	.22MXM50
0.33µF	50V	4X5	.33MXM50
0.47µF	50V	3X5	.47MXM50
1µF	50V	3X5	1MXM50
1µF	50V	4x5	1UWX50
2.2µF	35V	3X5	2.2MXM35
2.2µF	50V	4X5	2.2MXM50
3.3µF	35V	3X5	3.3MXM35
3.3µF	50V	4X5	3.3MXM50
4.7µF	25V	3X5	4.7MXM25
4.7µF	35V	4X5	4.7MXM35
4.7µF	50V	5X5	4.7MXM50
10µF	16V	3X5	10UWX16
10µF	16V	4X5	10MXM16
10µF	25V	4X5	10MXM25
10µF	35V	5X5	10MXM35
10µF	50V	6.3X5	10MXM50
22µF	4V	3X5	22MXM4
22µF	6.3V	3X5	22UWX6.3
22µF	6.3V	4X5	22MXM6.3
22µF	16V	5X5	22MXM16
22µF	35V	6.3X5	22MXM35
22µF	50V	8X6	22MXM50
33µF	4V	4X5	33MXM4
33µF	10V	5X5	33MXM10
33µF	25V	6.3X5	33MXM25
33µF	50V	8X10	33MXM50
47µF	4V	4X5	47MXM4
47µF	6.3V	5X5	47MXM6.3
47µF	16V	6.3X5	47MXM16
47µF	35V	8X6	47MXM35
47µF	50V	10X10	47MXM50
100µF	6.3V	6.3X5	100MXM6.3
100µF	16V	8x6	100MXM16
100µF	25V	8X10	100MXM25
100µF	35V	6X8	100MXM35
220µF	4V	6.3X5	220MXM4
220µF	10V	6X8	220MXM10
330µF	6.3V	8X6	330MXM6.3
470µF	6.3V	8X10	470MXM6.3
470µF	10V	10X10	470MXM16
680µF	6.3V	10X10	680MXM6.3



ELECTROLYTIC SMD HIGH TEMP'

SURFACE MOUNT - 105°C

Similar to MXM Series Except:

Temperature . . . 105°C

Tolerance ±20%

Value	Volts	Size	Code
0.1µF	50V	4X5	.1HB50
0.22µF	50V	4X5	.22HB50
0.47µF	50V	4X5	.47HB50
1µF	50V	4X5	1HB50
2.2µF	50V	4X6	2.2HB50
4.7µF	25V	5X6	4.7HB25
4.7µF	50V	5X6	4.7HB50
6.8µF	25V	4X6	6.8HB25
10µF	16V	4X6	10HB16
10µF	16V	3X5	10UWT16
10µF	35V	5X6	10HB35
22µF	6.3V	4X6	22HB6.3
22µF	16V	5X6	22HB16
22µF	25V	6X6	22HB25
33µF	10V	5X6	33HB10
47µF	6.3V	5X6	47HB6.3
47µF	16V	5X6	47HB16
100µF	6.3V	6X6	100HB6.3





02 COMPONENTS

↓ Electrolytic Radial

METAL CAN CAPACITOR

400µF 385Vdc
LCR Brand made
in UK PCB Mount
pins (4X). PCM
401 CJ 385

Value	Volts	Size	Code
400µF	385VDC	75x35mmØ	400C385



METAL CAN DUAL CAPACITOR

50+50µF 250Vdc
LCR Brand made
in UK PCB Mount
pins (3X). FAC/
SD28D

Value	Volts	Size	Code
50µF+50µF	250V	40X30mmØ	100C250



METAL CAN DUAL CAPACITOR

25+225µF 385Vdc
LCR Brand made
in UK PCB Mount
pins (3X). FAC/
SD29D

Value	Volts	Size	Code
225µF+25µF	385V	40x40mmØ	250C385



F&T DUAL VALUE RADIAL CAPACITOR

32+32µF 500V
F&T direct replacement
type caps, dual value
electrolytic aluminium
Premium quality made in
Germany.

Value	Volts	Size	Code
32µF+32µF	500V	52x35Ø	FT32X32



F&T DUAL VALUE RADIAL CAPACITOR

50+50µF 500Vdc
F&T direct replacement type caps,
dual value electrolytic aluminium
Premium quality made in Germany.

Value	Volts	Size	Code
50µF+50µF	500V	52x35Ø	FT50X50



F&T DUAL VALUE RADIAL CAPACITOR

100+100µF 500Vdc
F&T direct replacement type caps,
dual value electrolytic aluminium
Premium quality made in Germany.

Value	Volts	Size	Code
100µF+100µF	500V	66x35Ø	FT100X100



LARGE VALUE HIFI CAPACITOR

15,000µF 100Vdc
As used in audio amplifiers etc.
50x90mmØ plus terminals

Code
15000RPS100

NEW! 4,700µF 63Vdc
36x60mm plus terminals

Code
4700RPS63



SEE
PREVIOUS
PAGE FOR
MORE...

↓ Electrolytic Backup

GOLD CAPS

BACKUP CAPACITORS

1.0F 5.5V

Code
GC1

0.22F 5.5V

Code
GC.22

0.47F 5.5V

Code
GC.47



↓ Electrolytic Radial Non-Polarised

50V NON POLARISED NP (µF)

Suit applications in TV. Audio, Speakers, etc. µF

Code	Code
.47NP50	33NP50
1NP50	47NP50
2.2NP50	100NP50
3.3NP50	220NP50
4.7NP50	330NP50
6.8NP50	470NP35
10NP50	470NP50
22NP50	



63V NON POLARISED NP (µF)

BI-POLAR TV Deflection Caps High Current.
High-F High grade.

Value	Volts	Size	Code
2.2µF	63V	13x25mm	2.2BP63
3.3µF	63V	16x25mm	3.3BP63
4.7µF	63V	16x32mm	4.7BP63
6.8µF	63V	16x36mm	6.8BP63
10µF	63V	18x36mm	10BP63
15µF	63V	18x41mm	15BP63



100V NON POLARISED NP (µF)

Radial general purpose Electrolytic
Suit most circuits, TV, Audio, etc.
All values are in µF and are 100V

Code	Code
.47NP100	10NP100
1NP100	22NP100
2.2NP100	33NP100
3.3NP100	47NP100
4.7NP100	100NP100



↓ Electrolytic Axial Non-Polarised

100V NON POLARISED AXIAL STYLE (µF)

Speaker Xovers, Valve, etc. µF

Code	Code
1RY100	33RY100
2.2RY100	47RY100
3.3RY100	68RY100
4.7RY100	100RY100
6.8RY100	150RY100
10RY100	220RY100
15RY100	330RY100
22RY100	470RY100





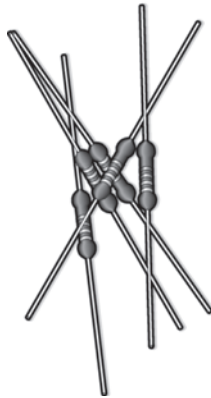
→ Inductors

RF CHOKES / INDUCTORS

Packaged 5 pieces per bag with header for easy identification.

Value	Code
1 microhenry	RFC1UH
1.5 microhenry	RFC1.5UH
2.2 microhenry	RFC2.2UH
3.3 microhenry	RFC3.3UH
4.7 microhenry	RFC4.7UH
6.8 microhenry	RFC6.8UH
8.2 microhenry	RFC8.2UH
10 microhenry	RFC10UH
15 microhenry	RFC15UH
22 microhenry	RFC22UH
33 microhenry	RFC33UH
47 microhenry	RFC47UH
82 microhenry	RFC82UH
100 microhenry	RFC100UH
150 microhenry	RFC150UH
220 microhenry	RFC220UH
330 microhenry	RFC330UH
470 microhenry	RFC470UH
680 microhenry	RFC680UH
1 millihenry	RFC1MH
1.5 millihenry	RFC1.5MH
2.5 millihenry	RFC2.5MH
5 millihenry	RFC5MH
10 millihenry	RFC10MH

**Order One
to Receive
a bag of Five!**



COMPACT 6X8mm INDUCTORS

Low profile with protective cover. 10% Tol. Q=60 to 80 minimum.

mH	mAmax	Code
0.10	200	TK8101
0.12	200	TK8121
0.15	200	TK8151
0.18	200	TK8181
0.22	150	TK8221
0.27	150	TK8271
0.33	150	TK8331
0.39	100	TK8391
0.47	100	TK8471
0.56	100	TK8561
0.68	100	TK8681
0.82	50	TK8821
1.00	50	TK8102
1.20	50	TK8122
1.50	50	TK8152
1.80	50	TK8182
2.20	50	TK8222
2.70	50	TK8272
3.30	40	TK8332
3.90	40	TK8392
4.70	40	TK8472
5.60	30	TK8562
6.80	30	TK8682
8.20	30	TK8882
10.0	20	TK8103
12.0	20	TK8123
15.0	20	TK8153



ENCASED 10x14mm INDUCTORS

Choke coil for noise filtering, etc. 10% Tol. Q=100

mH	mAmax	Code
18.0	100	TK10183
22.0	100	TK10223
27.0	100	TK10273
33.0	100	TK10333
36.0	100	TK10363
39.0	100	TK10393
47.0	100	TK10473
56.0	100	TK10563
68.0	100	TK10683
82.0	100	TK10823
100	100	TK10104
120	100	TK10124



SOLEN CROSSOVER INDUCTORS

OFC AIR-CORE 14AWG 1.63mm

High grade, low-loss, pure 99.99% copper wire is used. Very low Magnetostriction distortion. Induction value remains constant regardless of voltage and current variation. Low DCR. Low skin effect losses. Low proximity effect. Low self capacitance. A premium grade component developed for the purest audiophile, without compromise. Tolerance (mH) is $\pm 1\%$ DCR (Ohms) $\pm 5\%$ Dimensions (mm) $\pm 10\%$ 1.63mm O/D 14 AWG



Value	Ω	Size	Solen#	Code
.16mH	.07 Ω	14x29x57 mm	S14.16	SOL0.16
.18mH	.08 Ω	14x29x57 mm	S14.18	SOL0.18
.20mH	.08 Ω	14x29x57 mm	S14.20	SOL0.20
.22mH	.09 Ω	14x29x57 mm	S14.22	SOL0.22
.27mH	.10 Ω	14x29x57 mm	S14.27	SOL0.27
.33mH	.11 Ω	16x32x64 mm	S14.33	SOL0.33
.39mH	.12 Ω	16x32x64 mm	S14.39	SOL0.39
.47mH	.13 Ω	16x32x64 mm	S14.47	SOL0.47
.51mH	.14 Ω	16x32x64 mm	S14.51	SOL0.51
.56mH	.15 Ω	16x32x64 mm	S14.56	SOL0.56
.68mH	.17 Ω	19x38x76 mm	S14.68	SOL0.68
.82mH	.19 Ω	19x38x76 mm	S14.82	SOL0.82
1.0mH	.21 Ω	19x38x76 mm	S141.0	SOL1.0
1.2mH	.24 Ω	19x38x76 mm	S141.2	SOL1.2
1.5mH	.28 Ω	19x38x76 mm	S141.5	SOL1.5
1.8mH	.30 Ω	22x45x89 mm	S141.8	SOL1.8
2.2mH	.33 Ω	22x45x89 mm	S142.2	SOL2.2
2.7mH	.39 Ω	22x45x89 mm	S142.7	SOL2.7
3.0mH	.42 Ω	22x45x89 mm	S143.0	SOL3.0
3.3mH	.45 Ω	25x51x102 mm	S143.3	SOL3.3
3.9mH	.49 Ω	25x51x102 mm	S143.9	SOL3.9
4.7mH	.56 Ω	25x51x102 mm	S144.7	SOL4.7
5.1mH	.59 Ω	25x51x102 mm	S145.1	SOL5.1
5.6mH	.63 Ω	25x51x102 mm	S145.6	SOL5.6
6.8mH	.71 Ω	32x64x127 mm	S146.8	SOL6.8
8.2mH	.79 Ω	32x64x127 mm	S148.2	SOL8.2
10mH	.87 Ω	32x64x127 mm	S1410	SOL10

<http://www.solen.ca>

Recommended:

Maximum DCR for Series inductors for 8 Ω load is 0.6 Ω Total.
Maximum DCR for Parallel inductors for 8 Ω load is 1.2 Ω Total.

INDUCTORS 1mm(18AWG) X-OVER

Excellent quality low DC resistance AIR-CORE for Audio. Thick gauge for high current in Speaker cross-overs, etc.

Value	Ω	Size	Code
0.03mH	0.05 Ω	15x30 \emptyset mm	XLA0.03
0.05mH	0.1 Ω	50x20 \emptyset mm	XLA0.05
0.08mH	0.05 Ω	15x30 \emptyset mm	XLA0.08
0.10mH	0.1 Ω	50x20 \emptyset mm	XLA0.1
0.12mH	0.1 Ω	50x20 \emptyset mm	XLA0.12
0.15mH	0.2 Ω	50x20 \emptyset mm	XLA0.15
0.18mH	0.2 Ω	50x20 \emptyset mm	XLA0.18
0.22mH	0.2 Ω	50x20 \emptyset mm	XLA0.22
0.33mH	0.3 Ω	50x20 \emptyset mm	XLA0.33
0.39mH	0.3 Ω	50x20 \emptyset mm	XLA0.39
0.47mH	0.3 Ω	50x20 \emptyset mm	XLA0.47
0.56mH	0.4 Ω	50x20 \emptyset mm	XLA0.56
0.68mH	0.5 Ω	50x20 \emptyset mm	XLA0.68
0.82mH	0.5 Ω	50x30 \emptyset mm	XLA0.82
1.0mH	0.6 Ω	50x30 \emptyset mm	XLA1
1.2mH	0.7 Ω	50x30 \emptyset mm	XLA1.2
1.5mH	0.8 Ω	50x30 \emptyset mm	XLA1.5
1.8mH	0.8 Ω	50x30 \emptyset mm	XLA1.8
2.2mH	0.8 Ω	70x35 \emptyset mm	XLA2.2
2.7mH	0.9 Ω	70x35 \emptyset mm	XLA2.7
3.0mH	0.9 Ω	70x35 \emptyset mm	XLA3
3.3mH	1.2 Ω	70x35 \emptyset mm	XLA3.3
3.9mH	1.4 Ω	70x35 \emptyset mm	XLA3.9
4.7mH	1.4 Ω	70x35 \emptyset mm	XLA4.7
5.6mH	1.4 Ω	70x35 \emptyset mm	XLA5.6
6.8mH	1.5 Ω	70x35 \emptyset mm	XLA6.8
8.2mH	1.8 Ω	70x35 \emptyset mm	XLA8.2
10 mH	2.0 Ω	90x45 \emptyset mm	XLA10





→ Resistors

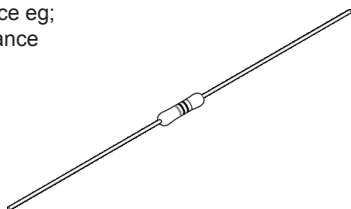
RESISTOR PREFERRED VALUES:

0.10Ω	1.0Ω	10Ω	100Ω	1KΩ	10KΩ	100KΩ	1MΩ
0.12Ω	1.2Ω	12Ω	120Ω	1.2KΩ	12KΩ	120KΩ	1.2MΩ
0.15Ω	1.5Ω	15Ω	150Ω	1.5KΩ	15KΩ	150KΩ	1.5MΩ
0.18Ω	1.8Ω	18Ω	180Ω	1.8KΩ	18KΩ	180KΩ	1.8MΩ
0.22Ω	2.2Ω	22Ω	220Ω	2.2KΩ	22KΩ	220KΩ	2.2MΩ
0.27Ω	2.7Ω	27Ω	270Ω	2.7KΩ	27KΩ	270KΩ	2.7MΩ
0.33Ω	3.3Ω	33Ω	330Ω	3.3KΩ	33KΩ	330KΩ	3.3MΩ
0.39Ω	3.9Ω	39Ω	390Ω	3.9KΩ	39KΩ	390KΩ	3.9MΩ
0.47Ω	4.7Ω	47Ω	470Ω	4.7KΩ	47KΩ	470KΩ	4.7MΩ
0.56Ω	5.6Ω	56Ω	560Ω	5.6KΩ	56KΩ	560KΩ	5.6MΩ
0.68Ω	6.8Ω	68Ω	680Ω	6.8KΩ	68KΩ	680KΩ	6.8MΩ
0.82Ω	8.2Ω	82Ω	820Ω	8.2KΩ	82KΩ	820KΩ	8.2MΩ
Sold individually or in bags of 100 per Value							10MΩ

0.25W CARBON 5%

To order quote **.25C** then the **VALUE** eg;
 .25C1K is a 1/4W 1KΩ 5% Tolerance eg;
 .25C220 is a 1/4W 220Ω 5% Tolerance

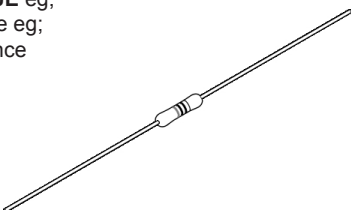
Value	Code*
1Ω to 10MΩ	.25Cxx



0.5W CARBON 5%

To order quote **.5C** then the **VALUE** eg;
 .5C1K is a 1/2W 1KΩ 5% Tolerance eg;
 .5C220 is a 1/2W 220Ω 5% Tolerance

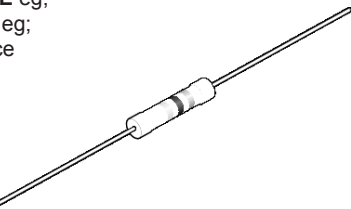
Value	Code*
1Ω to 10MΩ	.5Cxx



1W CARBON 5%

To order quote **1C** then the **VALUE** eg;
 1C1K is a 1W 1KΩ 5% Tolerance eg;
 1C220 is a 1W 220Ω 5% Tolerance

Value	Code*
1Ω to 10MΩ	1Cxx



0.4W METAL FILM 5%

High quality, Low noise, Low drift.
 To order quote **.4M** then **VALUE** eg;
 .4M220 is a 0.4W 220Ω Metal Film

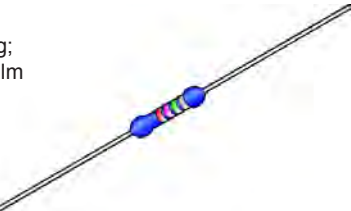
Value	Code*
1Ω to 10MΩ	.4Mxx



2W METAL FILM 5%

High quality, Low noise, Low drift.
 To order quote **2M** then **VALUE** eg;
 2M220 is a 2W 220Ω 5% Metal Film

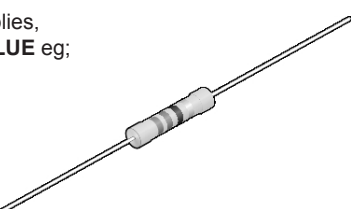
Value	Code*
1Ω to 1MΩ	2Mxx



1W WIRE WOUND

Low inductance type, Power supplies, etc. To order quote **KNP** then **VALUE** eg;
 KNP22 is a 1W 22Ω Wire Wound

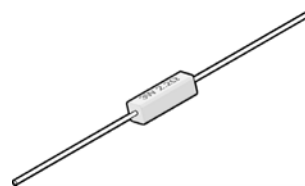
Value	Code*
0.1Ω to 47Ω	KNPxx



3W WIRE WOUND CERAMIC

To order quote **3W** then **VALUE** eg;
 3W1K is a 3W 1KΩ Ceramic eg;
 3W220 is a 3W 220Ω Ceramic

Value	Code*
0.1Ω to 47KΩ	3Wxx



5W WIRE WOUND CERAMIC

To order quote **5W** or **5NLR** then **VALUE**
 Values 0.1Ω to 22KΩ

Value	Code*
0.1Ω to 22KΩ	5Wxx



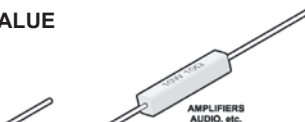
NON-INDUCTIVE TYPE

Value	Code*
0.22Ω to 100Ω	5NLRxx

10W WIRE WOUND CERAMIC

To order quote **10W** or **10NLR** then **VALUE**
 Values 0.1Ω to 18KΩ

Value	Code*
0.1Ω to 18KΩ	10Wxx



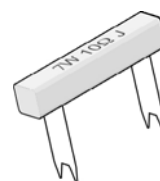
NON-INDUCTIVE TYPE

Value	Code*
0.22Ω to 100Ω	10NLRxx

7W WIRE WOUND CERAMIC

Special stand-off type as used in TV
 To order quote **7W** then **VALUE**
 eg; 7W10 is a 7W 10Ω Stand-Off

Value	Code*
1Ω to 10Ω	7Wxx



0.5W FUSIBLE RESISTORS

As used in power supplies, etc.
 To order quote **.5F** then **VALUE**
 eg; .5F1K is a 1/2W 1KΩ Fusible

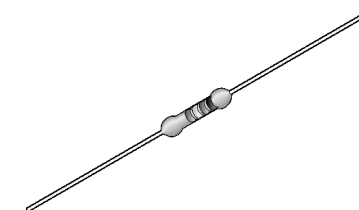
Value	Code*
0.1Ω to 10kΩ	.5Fxx
Special Values*	.5F.51



1W FUSIBLE RESISTORS

As used in power supplies, etc.
 To order quote **1F** then **VALUE**
 eg; 1F1K is a 1W 1KΩ Fusible

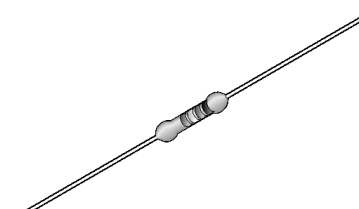
Value	Code*
0.1Ω to 10kΩ	1Fxx
Special Values*	1F150K



2W FUSIBLE RESISTORS

As used in power supplies, etc.
 To order quote **2F** then **VALUE**
 eg; 2F1K is a 2W 1KΩ Fusible

Value	Code*
0.22Ω to 1kΩ	2Fxx
Special Values*	2F.51



3W 5.6Ω As used in TVs

Code
3F5.6

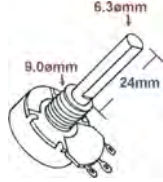


→ Potentiometers

CARBON POTENTIOMETERS 1/4" 1/4W

Type	Value	Code
Linear	1KΩ	VRC1KB
Linear	5KΩ	VRC5KB
Linear	10KΩ	VRC10KB
Linear	25KΩ	VRC25KB
Linear	50KΩ	VRC50KB
Linear	100KΩ	VRC100KB
Linear	500KΩ	VRC500KB
Linear	1MΩ	VRC1MB

LINEAR Solder Lugs



CARBON POTENTIOMETERS 1/4" 1/4W

Type	Value	Code
Linear	500Ω	V24-500RB
Linear	1KΩ	V24-1KB
Linear	5KΩ	V24-5KB
Linear	10KΩ	V24-10KB
Linear	25KΩ	V24-25KB
Linear	50KΩ	V24-50KB
Linear	100KΩ	V24-100KB
Linear	250KΩ	V24-250KB
Linear	500KΩ	V24-500KB
Linear	1MΩ	V24-1MB

PCB Mount LINEAR



CARBON POTENTIOMETERS 1/4" 1/4W DUAL

LINEAR DUAL-GANG

Stereo Control Pots

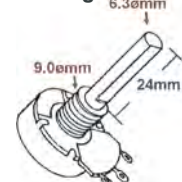
Type	Value	Code
Linear	10KΩ	V24-10K2B
Linear	25KΩ	V24-25K2B
Linear	50KΩ	V24-50K2B
Linear	100KΩ	V24-100K2B



CARBON POTENTIOMETERS 1/4" 1/4W

Type	Value	Code
LOG	1KΩ	VRC1KA
LOG	5KΩ	VRC5KA
LOG	10KΩ	VRC10KA
LOG	25KΩ	VRC25KA
LOG	50KΩ	VRC50KA
LOG	100KΩ	VRC100KA
LOG	500KΩ	VRC500KA
LOG	1MΩ	VRC1MA

LOGARITHMIC [Vol] Solder Lugs



CARBON POTENTIOMETERS 1/4" 1/4W

Type	Value	Code
LOG	1KΩ	V24-1KA
LOG	5KΩ	V24-5KA
LOG	10KΩ	V24-10KA
LOG	25KΩ	V24-25KA
LOG	50KΩ	V24-50KA
LOG	100KΩ	V24-100KA
LOG	250KΩ	V24-250KA
LOG	500KΩ	V24-500KA
LOG	1MΩ	V24-1MA

LOGARITHMIC [Vol] PCB Mount



CARBON POTENTIOMETERS 1/4" 1/4W DUAL

LOGARITHMIC DUAL-GANG

Stereo Volume Control Pots

Type	Ω	Code
LOG	10KΩ	V24-10K2A
LOG	50KΩ	V24-50K2A
LOG	100KΩ	V24-100K2A



WIRE WOUND 500VDC 3W 1/4"

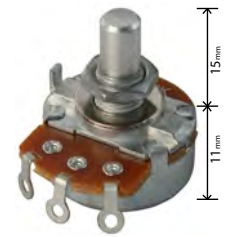
Type	Value	Code
Linear	10Ω	VRW10
Linear	25Ω	VRW25
Linear	50Ω	VRW50
Linear	100Ω	VRW100
Linear	250Ω	VRW250
Linear	500Ω	VRW500
Linear	1KΩ	VRW1K
Linear	2KΩ	VRW2K
Linear	5KΩ	VRW5K
Linear	10KΩ	VRW10K



ALPHA POTENTIOMETERS

GUITAR AMP POTENTIOMETER

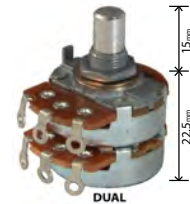
Type	Value	Code
Linear	5K	V30-5KB
Linear	10K	V30-10KB
Linear	25K	V30-25KB
Linear	100K	V30-100KB
Linear	250K	V30-250KB
Log	100K	V30-100KA
Log	250K	V30-250KA
Log	500K	V30-500KA
Log	1M	V30-1MA



ALPHA DUAL POTENTIOMETERS

1/4" Solid Shaft, 24mm Body, Solder Lugs, 1/2 Watt Rated. Fits 3/8" Hole. Comes With Hex Nut and Washer.

Type	Value	Code
Dual Linear	100K	V30-100KBX2
Dual Log	1M	V30-1MAX2



CTS POTENTIOMETERS

NYLON SHAFT

Type	Value	Code
Linear	100K	V32100KB
Log	10K	V32-10KA
Log	250K	V32-250KA
Log	500K	V32-500KA
Log	1M	V32-1MA
Reverse Log	50K	V32-50KRA
Reverse Log	3M	V323MRA



CTS SWITCHED POTENTIOMETERS

CTS PUSH-PULL SWITCH

Single Pole switch. 1/4" Shaft with 1.5mm centre cut, 24mm Body, Solder Lugs, 1/2 Watt Rated, 125Vac 3A. Fits 3/8" Hole. Comes With Hex Nut and Washers.

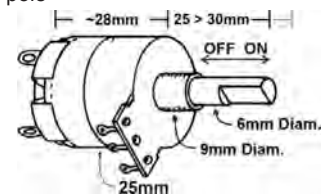
Type	Value	Code
Log	10K	V34-10KA
Log	1M	V34-1MA



SWITCHED POTENTIOMETERS

TV Volume control with Pull-Out Two pole Single throw 240VAC switch.

Type	Value	Code
Log	5K	VRS105
Log	20K	VRS120
Log	50K	VRS150
Log	100K	VRS100

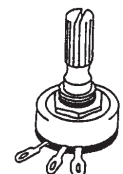


MINIATURE POTENTIOMETER

Mono Volume control

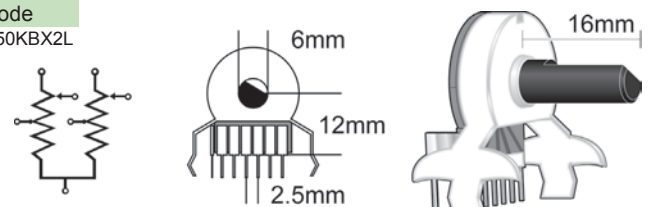
With Full-CCW OFF switch Turn Volume to minimum, then off Switch can be removed* Standard 1/4" Split-Shaft. Logarithmic.

Value	Code
5K	V17S-5K
50K	V17S-50K



VOLUME POT WITH LOUDNESS TAP

Code
V50KBX2L





02 COMPONENTS

→ Potentiometers

MINIATURE POTENTIOMETER

Mono Volume control With or without OFF switch Turn Volume to minimum, then off.

Value	Type	Code
10K	Norm.	V16N-10K
10K	Switched	V16S-10K
50K	Switched*	V16S-50K



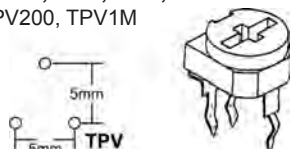
*The switch component can easily be removed.

TRIMMING POTENTIOMETERS

VERTICAL 5mm industry standard. To order quote TPV then: **200, 500, 1k, 2k, 5k, 10k, 20k, 50k, 100k, 200k, 500k, 1MΩ.**

TPV-Value = TrimPot Vertical, eg. TPV200, TPV1M

Code*
TPV-Value



TRIMMING POTENTIOMETERS

HORIZONTAL 5mm industry standard. To order quote TPH then: **200, 500, 1k, 2k, 5k, 10k, 20k, 50k, 100k, 200k, 500k, 1MΩ.** TPH+Value = TrimPot Horizontal eg. TPH200, TPH1M

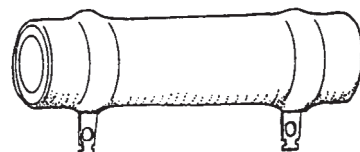
Code*
TPH-Value



HIGH POWER DUMMY LOADS

Non-Inductive load Resistors for testing amps, Power supplies, etc.

Ω	Power	Code
4Ω	50W	50W4
8Ω	50W	50W8
4Ω	100W	100W4
8Ω	100W	100W8



LDR - LIGHT DEPENDENT RESISTOR

Reduces resistance when exposed to light.

Light	16~50KΩ
Dark	2.0MΩ min
Vmax	150VDC
Pmax	100mW
Code	LDR07



<http://data.wescomponents.com/LDR07.pdf>

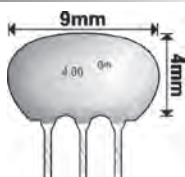
Model	V _{max} (VDC)	P _{max} (mW)	Ambient Temp (°C)	Spectral Peak (nm)	Photo Resistance (10Lx) (KΩ)	Dark Resistance (MΩ)min	Ω min	Response Time (ms)	
								Rise	Decay
LDR07	150	100	-30 ~ +70	540	16 ~ 50	2.0	0.7	20	30

→ Resonators

CERAMIC RESONATOR

3 Pin type With built-in load capacitance.

Freq.	Code
4.00MHz	CST4.00MGW



SAW RESONATOR 304MHz

Suit UHF Remote Controls.

Freq.	Type	Code
304MHz	Rectangular	SAR304



SAW RESONATOR 304MHz

Suit UHF Remote Controls.

Freq.	Type	Code
304MHz	Round	SAR3040B



CERAMIC RESONATORS

ROUND

Freq.	Code
3.52MHz	CSA3.52
3.58MHz	CSA3.58
4.00MHz	CSA4.00
7.20MHz	CSA7.20
10.00MHz	CSA10.00



SQUARE

Freq.	Code
307KHz	CSB307D
393KHz	CSB393
400KHz	CSB400
420KHz	CSB420J
429KHz	CSB429
430KHz	CSB430
440KHz	CSB440
450KHz	CSB450
455KHz	CSB455
480KHz	CSB480
485KHz	CSB485
493KHz	CSB493
500KHz	CSB500

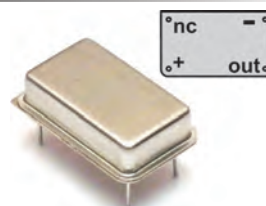


→ Crystals

4.433MHZ COLOUR X'TAL

Crystal Oscillator block. TTL CMOS Compatible. As used in PAL Colour. 5V. 4.433MHz. 21x13x5mm

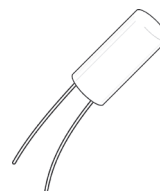
Code
QXO-1100



SHARP CRYSTAL

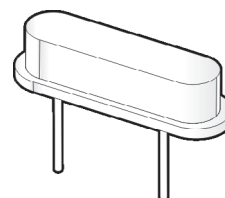
RCSR0090GEZZ As used in SHARP TV and VCRs.

Code
CR0090



CRYSTALS LOW PROFILE

Freq.	Code
4.500000MHz	CR4.500LP
7.20000MHz	CR7.200LP
8.867238MHz	CR8.867LP



CRYSTALS STEEL CAP

Freq.	Code
2000Hz (2KHz)	CR2000
3.562MHz	CR3.562
3.579545MHz	CR3.579
4.0000MHz	CR4.000
4.43361875MHz	CR4.433
4.5000MHz	CR4.500
6.0000MHz	CR6.000
8.0000MHz	CR8.000
8.867238MHz	CR8.867
10.0000MHz	CR10.00
18.432MHz	CR18.432
18.832MHz	CR18.832
20.250MHz	CR20.250
27.000MHz	CR27.000
7.20000MHz	CR7.200LP



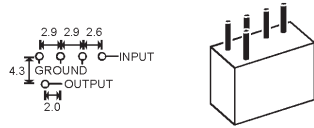


→ Filters

CERAMIC FILTERS

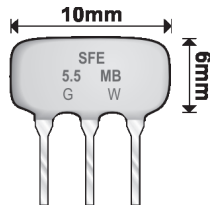
455KHz, 10KHz BW
Resin moulded

Code
CF455

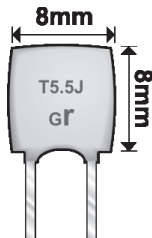
**CERAMIC FILTER AV**

Low Profile

Freq.	BW-3dB	BW-20dB	IL	I/O	Code
5.5MHz	±50KHz	±400KHz	-8dB	600Ω	SFE5.5MBF

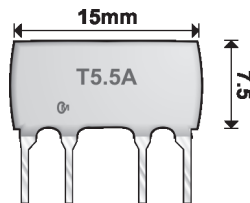
**CERAMIC TRAP AV**

Freq.	IL	I/O	Code
5.5MHz	-35dB	600Ω	TPS5.5MJ

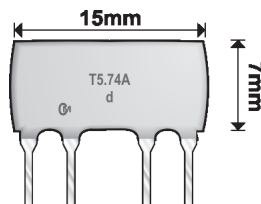
**CERAMIC FILTER**

High selectivity. Suit TV/VCRs.

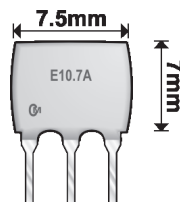
Freq.	B/W	I/O	Code
5.5MHz	50KHz(-3dB)	600Ω	SFT5.5MA

**CERAMIC FILTER AV**

Freq.	BW-3dB	BW-20dB	IL	I/O	Code
5.74MHz	±50KHz	±350KHz	-9dB	600Ω	SFT5.74MA

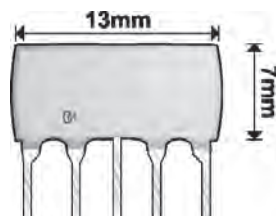
**CERAMIC FILTER FM-IF**

Freq.	BW-3dB	BW-20dB	IL	I/O	Code
10.7MHz	±280KHz	±650KHz	-6dB	330Ω	SFE10.7MA5A

**SAW FILTER AV**

For TV VIF/VCR

IL	Freq.	Code
-25dB	38.9MHz	SAF38.9MZ



→ Filters

FERRITE BEAD INDUCTORS

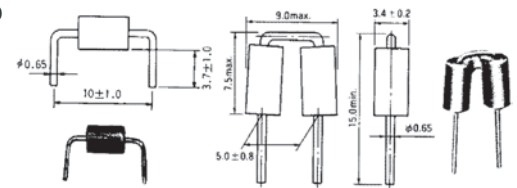
EMI suppression filter for power supplies, digital signals, etc.

DOUBLE BEAD

Code
FBI-2

SINGLE BEAD

Code
FBI-1

**FERRITE & CAP FILTERS 3-PIN**

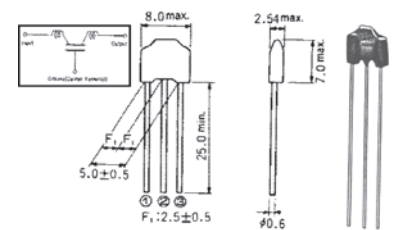
EMI suppression filter. High noise rejection.

10,000pF 100V

Code
EMIF103

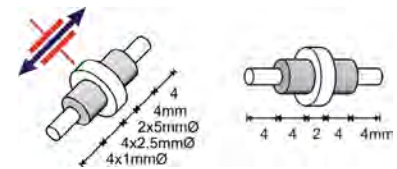
270pF 100V

Code
EMIF270

**FEED THROUGH CAPS 18-AWG****SOLDER MOUNT**

EMI suppression.
Feed-through type for
VHF/UHF noise filter.

Value	Code
1nF 50V	FT318-1000

**ELECTROMAGNETIC INDUCTION FIELD**

These devices are highly permeable ferrite cores, split inside a plastic case that snaps closed over power and data cables. Suppress noise from / to many sources. eg. Computer monitors, Power cords, Switch mode supplies, etc... Choose by cable diameter.

Cable	Size	Code
5mm	15x23	EMIF1000
6.5mm	17x32	EMIF1350
7.5mm	20x32	EMIF1651
8.5mm	20x32	EMIF1652



→ Surge Arrester

GAS DC SURGE ARRESTER

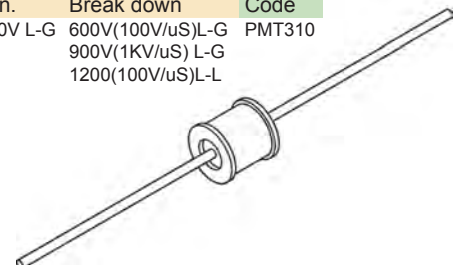
Gas arresters offer protection against voltage transients on DC such as lightning, inductive switching, electrostatic, etc., in telephone and telecommunication equipment. Under normal conditions it's effectively a capacitor. When the impulse breakdown voltage is exceeded it goes conductive. The devices clamp to around 10 to 20V when arcing so they are NOT SUITABLE for 240VAC applications. Austel certified.

2 LEAD

Nom.	Min.	Max.	Break down	Code
600V	510V	950V	950V(100V/uS) 1200V(1KV/uS)	GSA260

**3 LEAD**

Nom.	Max.	Min.	Break down	Code
250V L-G	300V L-G	200V L-G	600V(100V/uS)L-G 900V(1KV/uS) L-G 1200(100V/uS)L-L	PMT310





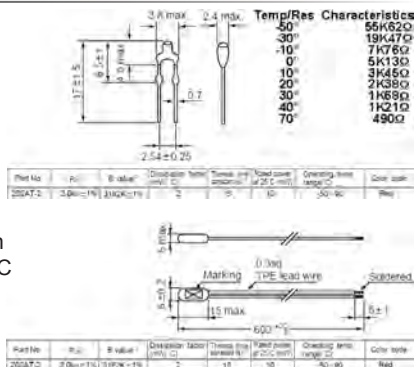
→ Thermal

↓ Thermistor

THERMISTOR - TEMPERATURE SENSOR

PCB Mount (2.54mm)
Thermal device. 2.0KΩ at
25°C ±0.3°C Precision.

Code
202AT-2



WEATHER RESISTANT

"AT" Thermal resistor 60cm
lead. Encased head. ±0.3°C
Accurate. 2KΩ at 25°C

Code
202AT-1

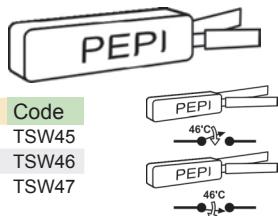
<http://data.wescomponents.com/202AT.pdf>

↓ Switches

PEPI THERMAL SWITCH - SELF RESET

Thermal trigger switch as commonly
used in power supplies & battery packs.
With solder tags. Self-Resets.

Size	Type	Temp	Current	Voltage	Code
20x5x7mm	N/C	45°	6A	125V	TSW45
15x3x5mm	N/C	46°	2.6A	125V	TSW46
15x3x7mm	N/O	46°	2.6A	125V	TSW47



THERMOSTAT 5A

Self reset for Fan motor, Transformers, Fluorescent lamp ballast,
Battery, Induction Cooker, Motor etc. 5 Amp 250Vac. Tolerance ±5°C

Temp.	Code
70°C	KSD97-70
80°C	KSD97-80
85°C	KSD97-85
90°C	KSD97-90
95°C	KSD97-95
100°C	KSD97-100
105°C	KSD97-105
110°C	KSD97-110
115°C	KSD97-115
120°C	KSD97-120
125°C	KSD97-125
130°C	KSD97-130
135°C	KSD97-135
140°C	KSD97-140
145°C	KSD97-145
150°C	KSD97-150



↓ Cut-Off

TRANSFORMER 2A THERMAL CUT-OFFS

Goes open circuit if temperature is exceeded.
Insulated. Used in transformers, motors, etc.
Low DC to 240VAC 2A. Non-Resettable.

Size	Triggers	Code
6.5x2.5x9mm	115°	TF115
6.5x2.5x9mm	125°	TF125
6.5x2.5x9mm	130°	TF130



TRANSFORMER 2A THERMAL CUT-OFFS

Temp	Code
100°C	TF12-100
105°C	TF12-105
110°C	TF12-110
115°C	TF12-115
120°C	TF12-120
125°C	TF12-125
130°C	TF12-130
133°C	TF12-133
140°C	TF12-140
145°C	TF12-145
150°C	TF12-150

Goes open circuit if
temperature is exceeded.
Insulated. Used in
transformers, motors, etc.
Low DC to 240VAC 2A.
Non-Resettable.

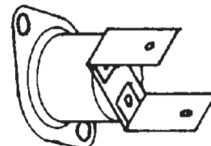


↓ Cut-Off

THERMAL CUT-OFFS 10A

Thermal circuit breakers as used in
appliances like microwave ovens.
Self resetting. Thermal triggered.
Rated at 10A 240Vac.
Normally closed.

Temp	Code
70°C	MWT70
75°C	MWT75
80°C	MWT80
85°C	MWT85
90°C	MWT90
95°C	MWT95
100°C	MWT100
105°C	MWT105
110°C	MWT110
115°C	MWT115
120°C	MWT120
125°C	MWT125
130°C	MWT130
135°C	MWT135
140°C	MWT140
145°C	MWT145
150°C	MWT150
155°C	MWT155
160°C	MWT160
165°C	MWT165



THERMAL CUT-OFFS 10A

Microtemps are Non-Resettable metal thermal They go open circuit
if a temperature is exceeded. As used in appliances like toasters,
heaters, etc. Rated at 240Vac 10A. ~60mm long.

Temp	Code
70°C	MT70
72°C	MT72
76°C	MT76
80°C	MT80
85°C	MT85
92°C	MT92
94°C	MT94
99°C	MT99
105°C	MT105
110°C	MT110
113°C	MT113
121°C	MT121
126°C	MT126
128°C	MT128
133°C	MT133
135°C	MT135
139°C	MT139
142°C	MT142
145°C	MT145
150°C	MT150
152°C	MT152
155°C	MT155
167°C	MT167
172°C	MT172
180°C	MT180
182°C	MT182
184°C	MT184
192°C	MT192
195°C	MT195
198°C	MT198
210°C	MT210
216°C	MT216
228°C	MT228
230°C	MT230
240°C	MT240
245°C	MT245



→ **Varistor****METAL OXIDE VARISTOR SHARP**

Original part as used in Sharp appliances.

Code
VX0010

**PTC - POLYSWITCH PROTECTORS**

Positive temperature coefficient resistor that undergoes a large, quick increase in resistance when an over-current or high temperature heats it above a specific point. When the temperature reduces, the PolySwitch resets to resume normal operation. No manual resetting is required. Can be used to protect batteries, power supplies, motors transformers, speakers, AC/DC, etc. The following characteristics are for DC in still air at 20°C. For AC use Ohms Law and a mean value for ITRIP & IHOLD (Remember the RMS!)

I hold	I trip	Cold Ω	Code
0.10	0.20	2.50	RXE010
0.17	0.34	2.00	RXE017
0.20	0.40	1.83	RXE020
0.25	0.50	1.25	RXE025
0.30	0.60	0.88	RXE030
0.40	0.80	0.55	RXE040
0.50	1.00	0.50	RXE050
0.65	1.30	0.31	RXE065
0.75	1.50	0.25	RXE075
0.90	1.80	0.20	RXE090
1.10	2.20	0.15	RXE110
1.35	2.70	0.12	RXE135
1.60	3.20	0.09	RXE160
1.85	3.70	0.08	RXE185
2.50	5.00	0.05	RXE250
3.00	6.00	0.04	RXE300
3.75	7.50	0.03	RXE375

→ **Transorbs****TRANSORBS DEVICES****TRANSIENT VOLTAGE SUPPRESSORS**

Mosorb devices are designed to protect voltage sensitive components from high voltage, high energy transients. They have excellent clamping capability, high surge capability, low zener impedance and fast response time. These devices are cost-effective, highly reliable and are ideally-suited for use in communication systems, numerical controls, process controls, medical equipment, business machines, power supplies many other industrial/consumer applications, to protect CMOS, MOS and Bipolar integrated circuits.

Specifications:

Standard Voltage Range - 6.2 to 250 V

Peak Power - 1500 Watts @ 1 ms

Maximum Clamp Voltage @ Peak Pulse Current

Low Leakage 5 μ A Above 10 V

UL 497B for Isolated loop circuit protection

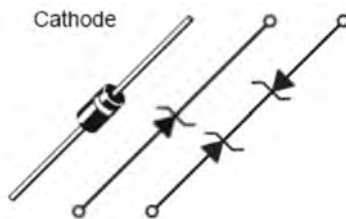
Response Time is Typically 1ns

POLARITY: Cathode indicated by polarity band.

When operated in zener mode, will be positive with respect to anode

BI-DIRECTIONAL

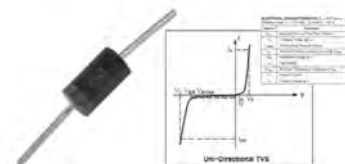
Record	Code
6.8V	1.5KE6.8CA
18V	1.5KE18CA
200V	1.5KE200CA

**MICROSEMI TVS 5KW**

Record	Code
36V	5KP36A

MOSORB 1N6275A & 1N6267A

Record	Code
15V	1.5KE15A
24V	1.5KE24A
180V	1.5KE180A
200V	1.5KE200A

**HI-TECH® VARISTORS VDR MOV**

Varistors are voltage dependent, non-linear devices which have an electrical behaviour similar to Back-To-Back Zener Diodes and are used for the absorption of transient voltages, suppression of pulse noise and general circuit stabilization.

Fast response Excellent voltage ratio High stabilization for circuit Vs Unparalleled absorption for transient voltage characteristics Bilateral and symmetrical V-I UL1414 UL1449 CSA VDE

**Applications;**

Surge protection in Consumer electronics Industrial electronics Telephone equipment Telecommunications Automotive instruments control and ignition systems. Measurement and control Gas & Petroleum Equipment Appliances, etc., etc. Absorption of switching surges for relays, switches, etc. Electro-static discharge Noise suppression specific component protection transistors, triacs, ICs, etc.

METAL OXIDE VARISTORS

Zinc Oxide Voltage Dependent Resistors. Fast, Low-Leak MOVs. High Performance. Protects from Over-Voltage, Spikes, etc. Joules are now based on 10/1000 μ S waveform. I_{max} is now based on a 10/1000 μ S waveform.

V _{rms} (AC)	V _{max} (DC)	I _{max}	Joules	Code
60	100	1750	12	7D101K
95	150	1750	13	7D151K
11	18	500	2	7D180K
14	22	500	2	7D220K
150	240	1750	21	7D241K
190	300	1750	26	7D301K
250	390	1750	35	7D391K
275	430	1750	40	7D431K
300	470	1750	42	7D471K
350	560	1750	49	7D561K
420	680	1750	50	7D681K
130	200	3500	35	10D201K
190	300	3500	54	10D301K
250	390	3500	70	10D391K
275	430	3500	80	10D431K
300	470	3500	85	10D471K
350	560	3500	92	10D561K
420	680	3500	92	10D681K
460	750	3500	100	10D751K
510	820	3500	110	10D821K
75	120	6000	80	14D121K
150	240	6500	84	14D241K
175	270	6500	99	14D271K
190	300	6500	108	14D301K
230	360	6500	130	14D361K
25	39	2000	13	14D390K
250	390	6500	140	14D391K
275	430	6500	155	14D431K
300	470	6500	175	14D471K
350	560	6500	190	14D561K
385	620	6500	190	14D621K
420	680	6500	172	14D681K
50	82	6000	28	14D820K
130	200	10000	180	20D201K
210	330	10000	228	20D331K
275	430	10000	305	20D431K
485	780	10000	440	20D781K
510	670	1355	460	20D821K
300	470	20000	440	25D471K
350	560	20000	440	25D561K
420	680	40000	460	25D681K
300	470	40000	600	34D471K
350	560	40000	710	34D561K
420	680	40000	910	34S681K





02 COMPONENTS

→ Lamps

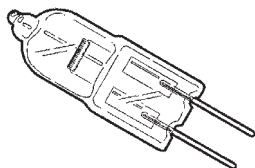
QUARTZ HALOGEN LAMPS

20W 12V

Code
QHL20

50W 12V

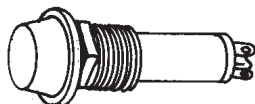
Code
QHL50



INDICATOR LAMP

Hole Diameter 7mm Volt 12

Colour	Code
Red	PL8R
Green	PL8GN



CHROME BEZEL INDICATOR LAMP

LED Insert with resistor. 12V Suit 8mm diameter hole.

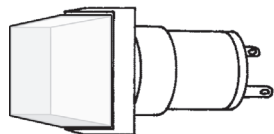
Colour	Code
Red	PL6R
Green	PL6GN
Yellow	PL6YL



INDICATOR LAMP

Hole Diameter 15mm Lens 18mm Sqr. Volt 12

Colour	Code
Orange	PL3



CHROME BEZEL INDICATOR LAMP

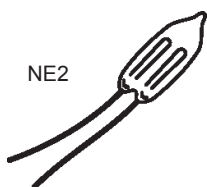
Hole Diameter 8mm. NEON Insert. Volt 12

Colour	Code
Green	PL5GN

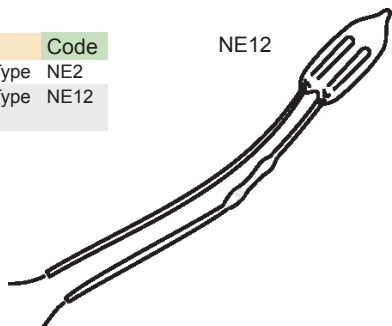


NEON LAMP

Description	Voltage	Type	Code
	90Vac	Pigtail Type	NE2
With Buffer Resistor	240Vac	Pigtail Type	NE12



NE12

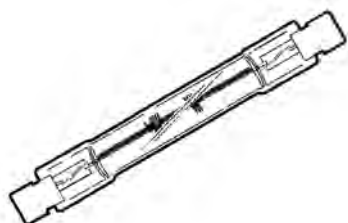


QUARTZ HALOGEN 250V

Watt	Code
150W	QHL150

Watt	Code
300W	QHL300

Watt	Code
500W	QHL500



ALARM WARNING LAMP

"Bi-pin" Lamp. Stiff legs. 60mA
As used in illuminated push button switches, etc.

Order One to receive Five

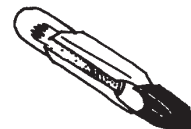
Volts	Code
12V	BIP3125
14V	BIP3145



INDICATOR LAMP REPLACEMENT

5mm Diam. 12 Volt 100mA

Code
IL50-12



PILOT LAMP 5mm SCREW

Torches, Dial Lamps, etc.

Volts	Code
3V	652-3
6V	652-6
12V	652-12



Quantity discounts available

PILOT LAMP 9mm SCREW

Suit torches*, Dial Lamps, etc.

Volts	Watt	Code
*2.2V	0.65W	653-3SB
*2.2V	0.7W	653-3LB
*5V	0.6W	653-5
6V	0.8W	653-6
12V	1.7W	653-12



PILOT LAMP 9mm BAYONET

Torches, Dial Lamps, etc.

Volts	Watt	Code
6V	1.5W	654-6
12V	1.5W	654-12

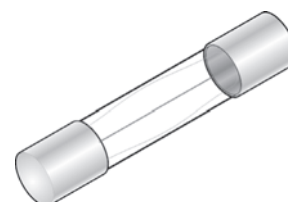


FUSE LAMPS 6.35mmx32mm

Same shape as a 3AG/MGC/TDL fuse.

Volts	Code
6v	754-6
8v	754-8
12v	754-12

Popular interior automotive and older HiFi dial lamps, etc. See fuse blocks for holders.



TORCHES

LED TORCH RANGE

Never blow a globe again!
Extend battery life ages
Impact & water resistant
Grab an LED torch! Many styles available



See Section 12 - AC POWER



→ Lamps

LEAD LAMPS 3mm

Supplied individually (order one to receive one).

Volts	Code
6V	NL692-3-6
9V	NL692-3-9
12V	NL692-3-12



LEAD LAMPS 4mm

Volts	Code
6V	NL692-4-6
9V	NL692-4-9
12V	NL692-4-12



LEAD LAMPS 5mm

Volts	Code
6V	NL692-5-6
9V	NL692-5-9
12V	NL692-5-12



WIRE TERMINAL 2.3mm

Order One to receive a bag of FIVE

Volts	Code
6V	WT265
9V	WT295
12V	WT2125



WIRE TERMINAL 3mm

Some car stereo front panels have coloured lighting using the low current wire terminal lamps below with the original rubber covers. (Re-use the original covers.)

Order one to receive a bag of five!

Size	V/I	Code
3mm	6V 30mA	IL3065
3mm	9V 30mA	IL3095
3mm	12V 40mA	IL30125



WIRE TERMINAL 3mm

Order One to receive a bag of FIVE

Volts	Code
6V	WT365
8V	WT385
9V	WT395
12V	WT3125



WIRE TERMINAL 4mm

Order One to receive a bag of FIVE

Volts	Code
6V	WT465
9V	WT495
12V	WT4125
14V	WT4145



WIRE TERMINAL 5mm

Order One to receive a bag of FIVE

Volts	Code
12V	WT5125
24V	WT5245



AXIAL LAMPS 3mm

Order One to receive a bag of FIVE

Volts	Code
6V	AXL365
9V	AXL395
12V	AXL3125



AXIAL LAMPS 4mm

Order One to receive a bag of FIVE

Volts	Code
6V	AXL465
9V	AXL495
12V	AXL4125



AXIAL LAMPS 5mm

Order One to receive a bag of FIVE

Volts	Code
6V	AXL565
9V	AXL595
12V	AXL5125



SMALL WEDGE LAMPS 5mm

Order One to receive a bag of FIVE

Volts	Code
6V	WL565
12V	WL5125



WEDGE LAMPS 10mm

Order One to receive a bag of FIVE

Volts	Code
6V	WL1065
8V	WL1085
12V	WL10125



BI-PIN LAMPS 4mm & 5mm

Order One to receive a bag of FIVE

Volts	Globe	Code
6V	4mm	BIP465
6V	5mm	BIP565
8V	4mm	BIP485
12V	3mm	BIP3125
12V	4mm	BIP4125
12V	5mm	BIP5125





02 COMPONENTS

→ Lamps

LAMPS - MICROWAVE CONVECTION & FRIDGE

These lamps will suit most white goods and other appliances, etc. Pictures are accurate at the time of printing but may vary slightly. Note! Some lamps are labelled as: **CONVECTION** or **Temp=300°C** are suitable for "HOT" ovens.



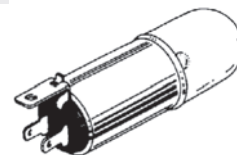
LAMP E17 NARROW

Base	E17
Volts	240Vac
Watt	20W
Temp	300°C
OEM	A60304080BP
Code	MWL80



AWI LAMP & BRACKET

Volts	240Vac
Watt	25W
Tags	4.3mm
Suit	NEC & others
Code	CL823



AWI LAMP E14 NARROW

CONVECTION High-Temp Globe

Base	E14	E14
	(14mm)	(14mm)
Volts	240Vac	240Vac
Watt	25W	15W
Temp	300°C	-
Code	CL807	CL802



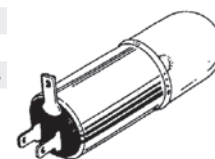
LAMP E17 NARROW 125VAC

Base	E17
Volts	125Vac
Watt	20W
Code	MWL40



AWI LAMP & BRACKET

Volts	240Vac
Watt	25W
Tags	4.3mm
Suit	Toshiba & others
Code	CL825



PANASONIC E14 NARROW

Base	E14 SES
Volts	240Vac
Watt	25W
Temp	300°C
OEM	ANE6030Q50GN
Code	MWL50



AWI LAMP E17 ROUND 250V

Base	E17	E17
Volts	240Vac	125Vac
Watt	25W	25W
Temp	300°C	-
Code	CL816	MWL817



AWI LAMP & BRACKET

Volts	240Vac
Watt	25W
Tags	4.3mm
Code	CL831



AWI LAMP E14 PEAR

Base	E14 SES
Volts	240Vac
Watt	15W
Temp	300°C
Code	CL806



AWI LAMP B15 NARROW

Base	B15 SBC
Volts	240Vac
Watt	15W
Code	CL803



AWI LAMP & BRACKET

Volts	240Vac
Watt	25W
Tags	6mm
Code	CL827



AWI LAMP E14 ROUND

Base	E14 SES
Volts	240Vac
Watt	40W
Code	CL801



AWI LAMP B15 ROUND

Base	B15 SBC
Volts	240Vac
Watt	25W
Code	CL808



AWI LAMP & BRACKET

Volts	240Vac
Watt	25W
Tags	4.3mm pair
Code	CL832



AWI LAMP E14

Base	E14 SES	E14 SES
Volts	240Vac	130Vac
Watt	25W	25W
Code	CL818	CL819



AWI LAMP B22 NARROW

Base	BC B22D	BC B22D
Volts	240Vac	240Vac
Watt	15W	25W
Code	CL804	CL809



AWI LAMP & BRACKET

Volts	240Vac
Watt	25W
Tags	4.3mm
Code	CL828



AWI LAMP E17 NARROW

Base	E17
Volts	240Vac
Watt	20W
Temp	STD
Code	CL821



SHARP LAMP

Horizontal Type
RLMPUA001WRE0,
350 626 0293
Code
LMP001



AWI LAMP & BRACKET

PANASONIC F612E4Y00XP Y9N01
Hi-Temp bulb & base as one.
40mm between mounting holes.
25mmØ Bulb. 66mm total height.

Volts	240Vac
Watt	25W
Tags	6 + 4mm
Code	F612E4





→ Fuses

THERMAL CUT-OFFS 2A

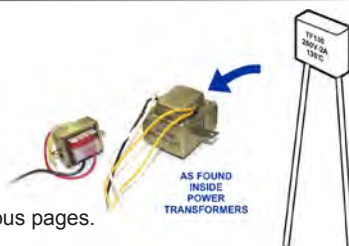
Protects items from overheating and fire 2A Max (DC-250Vac)

Temp	Code
115°C	TF12-115
130°C	TF12-130
133°C	TF12-133
140°C	TF12-140
145°C	TF12-145
150°C	TF12-150

**THERMAL CUT-OFFS 2A**

Protects transformers from overheating and fire. 2A Max Primary (240Vac)

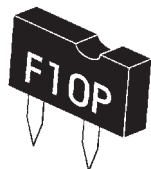
Temp	Code
115°C	TF115
125°C	TF125
130°C	TF130



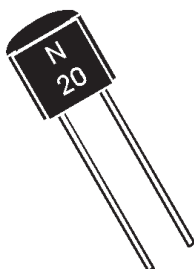
More thermal breakers on previous pages.

CIRCUIT PROTECTOR CHIPS - F

Current	Code
400mA	ICPF10
600 ma	ICPF15
800 ma	ICPF20
1 A	ICPF25
1.5A	ICPF38
2 A	ICPF50
2.7A	ICPF75

**CIRCUIT PROTECTOR CHIPS - N**

Current	Code
250 mA	ICPN5
400 mA	ICPN10
600 mA	ICPN15
800 mA	ICPN20
1 A	ICPN25
1.5A	ICPN38
2 A	ICPN50
2.7A	ICPN75

**PICOFUSES**

Current	Code
100mA	PF.100
125mA	PF.125
160mA	PF.160
200mA	PF.200
250mA	PF.250
315mA	PF.315
375mA	PF.375
500mA	PF.500
630mA	PF.630
750mA	PF.750
1A	PF1
1.2A	PF1.2



Current	Code
1.5A	PF1.5
2A	PF2
2.5A	PF2.5
3A	PF3
3.5A	PF3.5
4A	PF4
5A	PF5
6.3A	PF6.3
7A	PF7
10A	PF10
15A	PF15

MICRO FUSES TIME LAG 8mm x 8mm

Amps	Code
100mA	ETF100
125mA	ETF125
160mA	ETF160
200mA	ETF200
250mA	ETF250
315mA	ETF315
400mA	ETF400
500mA	ETF500
630mA	ETF630
800mA	ETF800



Amps	Code
1A	ETF1
1.25A	ETF1.25
1.6A	ETF1.6
2A	ETF2
2.5A	ETF2.5
3.15A	ETF3.15
4A	ETF4
5A	ETF5
6.3A	ETF6.3

HRC HIGH RUPTURE 5AG FUSE**SHATTER PROOF**

Ceramic Barrel 5AG 38x10mmØ 500Vdc/660Vac 100KA Surge

Current	Code
1A	HRC1
6A	HRC6
8A	HRC8
10A	HRC10
16A	HRC16
20A	HRC20
32A	HRC32

**HIGH CURRENT 5AG CAR-AMP FUSES****Order One to Receive Five**

Large Gold plated fuses as used in high-end car audio equipment. See Section 18 for Soundlink fuse holders to suit, etc.

Current	Code
10A	MFL10
20A	MFL20
30A	MFL30
40A	MFL40
50A	MFL50
60A	MFL60

**ATM MAXI-FUSE Large 28mm**

Jumbo sized and Gold plated for high currents.

Current	Code
20A	ATM20
30A	ATM30
40A	ATM40
50A	ATM50
60A	ATM60
70A	ATM70
80A	ATM80

**ATC AUTO FUSE Pop. 18mm**

Popular type "Spade terminal" As used in many of today's cars.

ORDER ONE TO RECEIVE FIVE

Type	Code
Card	ATC2
Card	ATC3
Card	ATC4
Card	ATC5
Card	ATC7.5
Card	ATC10
Card	ATC15
Card	ATC20
Card	ATC25
Card	ATC30
Card	ATC35

**ATC 18mm BULK****ORDER ONE TO RECEIVE FIFTY**

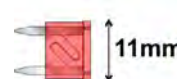
Type	Code
Card	ATC3-50
Card	ATC4-50
Card	ATC5-50
Card	ATC7.5-50
Card	ATC10-50
Card	ATC15-50
Card	ATC20-50
Card	ATC25-50
Card	ATC30-50
Card	ATC35-50

**ATS AUTOMOTIVE FUSES Mini 11mm**

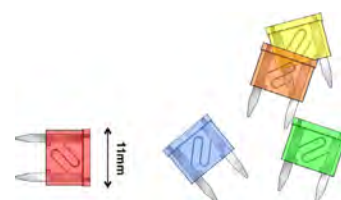
Miniature fuse used in car amps, audio, etc.

ORDER ONE TO RECEIVE FIVE

Type	Code
Card	ATS2
Card	ATS3
Card	ATS4
Card	ATS5
Card	ATS7.5
Card	ATS10
Card	ATS15
Card	ATS20
Card	ATS25
Card	ATS30
Card	ATS35

**ATS 11mm BULK****ORDER ONE TO RECEIVE FIFTY**

Type	Code
Card	ATS3-50
Card	ATS4-50
Card	ATS5-50
Card	ATS7.5-50
Card	ATS10-50
Card	ATS15-50
Card	ATS20-50
Card	ATS25-50
Card	ATS30-50
Card	ATS35-50



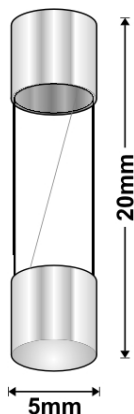


02 COMPONENTS

→ Fuses

CEB GLASS FUSE

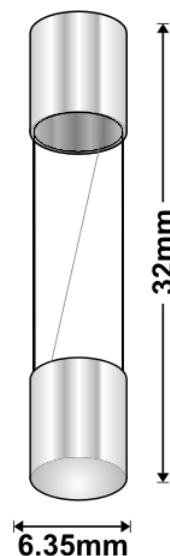
Amps	Code
50mA	CEB50
100mA	CEB.100
125mA	CEB.125
150mA	CEB.150
160mA	CEB.160
200mA	CEB.200
250mA	CEB.250
315mA	CEB.315
400mA	CEB.400
500mA	CEB.500
600mA	CEB.600
630mA	CEB.630
750mA	CEB.750
800mA	CEB.800
1A	CEB1
1.25A	CEB1.25
1.5A	CEB1.5
1.6A	CEB1.6
2A	CEB2
2.5A	CEB2.5
3A	CEB3
3.15A	CEB3.15
3.5A	CEB3.5
4A	CEB4
5A	CEB5
6.3A	CEB6.3
6.5A	CEB6.5
7A	CEB7
7.5A	CEB7.5
8A	CEB8
10A	CEB10
12A	CEB12
15A	CEB15
20	CEB20



2AG

MGC GLASS FUSE

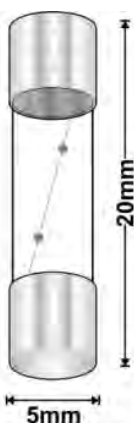
Amps	Code
50mA	MGC.050
100mA	MGC.100
125mA	MGC.125
150mA	MGC.150
160mA	MGC.160
200mA	MGC.200
250mA	MGC.250
315mA	MGC.315
350mA	MGC.350
500mA	MGC.500
600mA	MGC.600
630mA	MGC.630
750mA	MGC.750
800mA	MGC.800
1A	MGC1
1.25A	MGC1.25
1.5A	MGC1.5
1.6A	MGC1.6
2A	MGC2
2.5A	MGC2.5
3A	MGC3
3.15A	MGC3.15
3.5A	MGC3.5
4A	MGC4
5A	MGC5
6.3A	MGC6.3
6.5A	MGC6.5
7A	MGC7
7.5A	MGC7.5
8A	MGC8
10A	MGC10
12A	MGC12
15A	MGC15
20A	MGC20
25A	MGC25
30A	MGC30



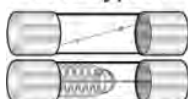
3AG

TBX SLOW BLOW

Amps	Code
50mA	TBX.050
100mA	TBX.100
125mA	TBX.125
150mA	TBX.150
160mA	TBX.160
200mA	TBX.200
250mA	TBX.250
315mA	TBX.315
400mA	TBX.400
500mA	TBX.500
630mA	TBX.630
750mA	TBX.750
800mA	TBX.800
1A	TBX1
1.25A	TBX1.25
1.5A	TBX1.5
1.6A	TBX1.6
2A	TBX2
2.5A	TBX2.5
3A	TBX3
3.15A	TBX3.15
3.5A	TBX3.5
4A	TBX4
5A	TBX5
6A	TBX6
6.3A	TBX6.3
6.5A	TBX6.5
7A	TBX7
8A	TBX8
10A	TBX10
15A	TBX15



Two Types:

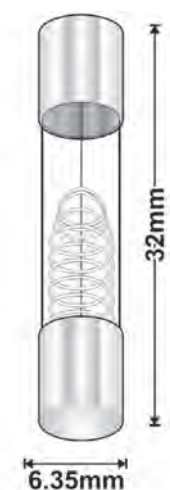


Type supplied on availability

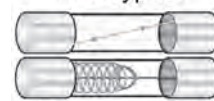
2AG

TDL SLOW BLOW

Amps	Code
50mA	TDL.050
100mA	TDL.100
125mA	TDL.125
150mA	TDL.150
160mA	TDL.160
200mA	TDL.200
250mA	TDL.250
315mA	TDL.315
350mA	TDL.350
375mA	TDL.375
500mA	TDL.500
600mA	TDL.600
630mA	TDL.630
750mA	TDL.750
800mA	TDL.800
1A	TDL1
1.25A	TDL1.25
1.5A	TDL1.5
1.6A	TDL1.6
2	TDL2
2.5A	TDL2.5
3A	TDL3
3.15A	TDL3.15
3.5A	TDL3.5
4A	TDL4
5A	TDL5
6.3A	TDL6.3
7A	TDL7
7.5A	TDL7.5
8A	TDL8
10A	TDL10
15A	TDL15
20A	TDL20



Two Types:



Type supplied on availability

3AG



→ Fuses

TBX PIGTAIL GLASS FUSES**SLOW BLOW (250V)**

Amps	Code
100mA	TBX.100PT
125mA	TBX.125PT
160mA	TBX.160PT
200mA	TBX.200PT
250mA	TBX.250PT
315mA	TBX.315PT
400mA	TBX.400PT
500mA	TBX.500PT
630mA	TBX.630PT
800mA	TBX.800PT
1A	TBX1PT
1.25A	TBX1.25PT
1.6A	TBX1.6PT
2A	TBX2PT
2.5A	TBX2.5PT
3.15A	TBX3.15PT
4A	TBX4PT
5A	TBX5PT
6.3A	TBX6.3PT
8A	TBX8PT
10A	TBX10PT
12A	TBX12PT
12.5A	TBX12.5PT
15A	TBX15PT
16A	TBX16PT
20A	TBX20PT

**2AG****TDL PIGTAIL GLASS FUSES****SLOW-BLOW (250V)**

Amps	Code
200mA	TDL.200PT
250mA	TDL.250PT
300mA	TDL.300PT
315mA	TDL.315PT
350mA	TDL.350PT
400mA	TDL.400PT
500mA	TDL.500PT
600mA	TDL.600PT
630mA	TDL.630PT
750mA	TDL.750PT
800mA	TDL.800PT
1A	TDL1PT
1.2A	TDL1.2PT
1.25A	TDL1.25PT
1.5A	TDL1.5PT
1.6A	TDL1.6PT
2A	TDL2PT
2.5A	TDL2.5PT
3A	TDL3PT
3.15A	TDL3.15PT
3.5A	TDL3.5PT
4A	TDL4PT
5A	TDL5PT
6A	TDL6PT
6.3A	TDL6.3PT
7A	TDL7PT
8A	TDL8PT
9A	TDL9PT
10A	TDL10PT
12A	TDL12PT
15A	TDL15PT

**3AG****CEB PIGTAIL GLASS FUSES****FAST BLOW (250V)**

Amps	Code
125mA	CEB.125PT
160mA	CEB.160PT
200mA	CEB.200PT
250mA	CEB.250PT
315mA	CEB.315PT
400mA	CEB.400PT
500mA	CEB.500PT
630mA	CEB.630PT
750mA	CEB.750PT
800mA	CEB.800PT
1A	CEB1PT
1.25A	CEB1.25PT
1.6A	CEB1.6PT
2A	CEB2PT
2.5A	CEB2.5PT
3.15A	CEB3.15PT
4A	CEB4PT
5A	CEB5PT
6.3A	CEB6.3PT
8A	CEB8PT
10A	CEB10PT
12A	CEB12PT
12.5A	CEB12.5PT
15A	CEB15PT
16A	CEB16PT
20A	CEB20PT

**2AG****MGC PIGTAIL GLASS FUSES****FAST BLOW (250V)**

Amps	Code
100mA	MGC.100PT
125mA	MGC.125PT
150mA	MGC.150PT
160mA	MGC.160PT
200mA	MGC.200PT
250mA	MGC.250PT
300mA	MGC.300PT
315mA	MGC.315PT
350mA	MGC.350PT
400mA	MGC.400PT
500mA	MGC.500PT
600mA	MGC.600PT
630mA	MGC.630PT
750mA	MGC.750PT
800mA	MGC.800PT
1A	MGC1PT
1.2A	MGC1.2PT
1.25A	MGC1.25PT
1.5A	MGC1.5PT
1.6A	MGC1.6PT
2A	MGC2PT
2.5A	MGC2.5PT
3A	MGC3PT
3.15A	MGC3.15PT
3.5A	MGC3.5PT
4A	MGC4PT
5A	MGC5PT
6A	MGC6PT
6.3A	MGC6.3PT
7A	MGC7PT
8A	MGC8PT
9A	MGC9PT
10A	MGC10PT
12A	MGC12PT
15A	MGC15PT

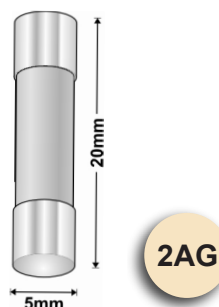
**3AG**



→ Fuses

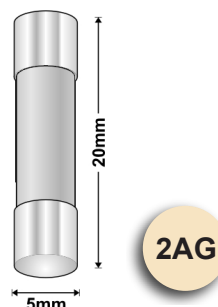
ABD CERAMIC FAST BLOW

Amps	Code
500mA	ABD.500
750mA	ABD.750
1A	ABD1
2A	ABD2
2.5A	ABD2.5
3A	ABD3
4A	ABD4
5A	ABD5
6A	ABD6
7A	ABD7
8A	ABD8
10A	ABD10



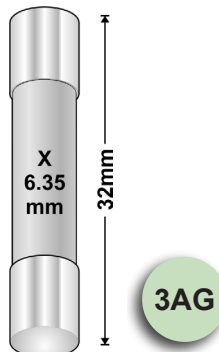
AFD CERAMIC SLOW BLOW

Amps	Code
125mA	AFD.125
250mA	AFD.250
1A	AFD1
1.25A	AFD1.25
1.6A	AFD1.6
2A	AFD2
2.5A	AFD2.5
3.15A	AFD3.15
5A	AFD5
6.3A	AFD6.3
8A	AFD8
10A	AFD10
12.5A	AFD12.5



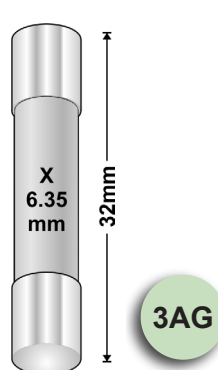
ABC CERAMIC FAST BLOW

Amps	Code
750mA	ABC.750
1A	ABC1
2A	ABC2
2.5A	ABC2.5
3A	ABC3
4A	ABC4
5A	ABC5
6A	ABC6
7A	ABC7
8A	ABC8
10A	ABC10
15A	ABC15
20A	ABC20



AFC CERAMIC SLOW BLOW

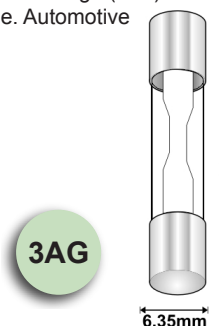
Amps	Code
1A	AFC1
1.5A	AFC1.5
1.6A	AFC1.6
2A	AFC2
2.5A	AFC2.5
3.15A	AFC3.15
5A	AFC5
6.3A	AFC6.3
7A	AFC7
8A	AFC8
10A	AFC10
16A	AFC16
12A	AFC12
15A	AFC15
20A	AFC20



AGF 32V FAST

Amps	Code
1A	AGF1
2A	AGF2
3A	AGF3
4A	AGF4
5A	AGF5
6A	AGF6
8A	AGF8
10A	AGF10
12A	AGF12
15A	AGF15
20A	AGF20
25A	AGF25
30A	AGF30
35A	AGF35

Similar to MGC Series
Except optimized for
low voltage (32V)
ie. Automotive



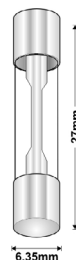
BOS GLASS FUSE

Amps	Code
3A	BOS3
5A	BOS5
10A	BOS10
15A	BOS15
20A	BOS20
25A	BOS25
30A	BOS30
35A	BOS35



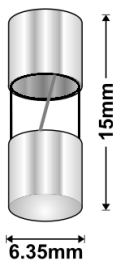
SFE GLASS FUSE

Amps	Code
1A	SFE1
1.5A	SFE1.5
2A	SFE2
3A	SFE3
6A	SFE6
7.5A	SFE7.5
9A	SFE9
14A	SFE14
20A	SFE20



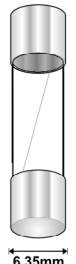
AGA GLASS FUSE

Amps	Code
1A	AGA1
1.5A	AGA1.5
2A	AGA2
2.5A	AGA2.5
5A	AGA5
6A	AGA6
7.5A	AGA7.5
10A	AGA10
15A	AGA15
20A	AGA20
25A	AGA25
30A	AGA30



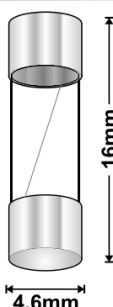
AGW GLASS FUSE

Amps	Code
1A	AGW1
1.5A	AGW1.5
3A	AGW3
5A	AGW5
7.5A	AGW7.5
10A	AGW10
15A	AGW15
20A	AGW20
25A	AGW25



SGB GLASS FUSE

Amps	Code
125mA	SGB.125
315mA	SGB.315
1A	SGB1
1.6A	SGB1.6
2A	SGB2
2.5A	SGB2.5
3A	SGB3
5A	SGB5
7.5A	SGB7.5
8A	SGB8
20A	SGB20



GBC EUROPEAN AUTO FUSE

Colour	Amps	Code
Canary Yellow*	5A	GBC5
White*	8A	GBC8
Red*	16A	GBC16
Light Orange*	20A	GBC20
Blue*	25A	GBC25
Green*	35A	GBC35



* Check value stamped on barrel or holder.



→ Fuse Holders

FUSE PULLER

For removing Round Glass Fuses and also ATC type fuses.

Code
FRT3



HEAVY DUTY

Adjustable jaws (9-35mm) for removing fuses, relays and other components.

Code
YF6254

ATC FUSE BLOCK

Designed for multiple hook-up of accessories, each with individual screw terminal outputs. Accepts up to six fuses. (Not included) See ATC

Code
AFB400



ATS WATER RESISTANT

Heavy duty design for use in unprotected places on boats, under car bonnets, etc. ATS Fuse not included. 135mm x2 12AWG wire

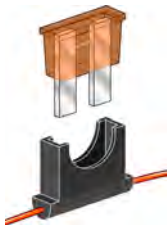
Code
FH17



ATC INLINE FUSE

General purpose Suit ATC plug-in fuses with wiring. No soldering required. Fuse not included.

Max. Code
30A JEF703



ATC WATER RESISTANT

Heavy duty design for use in unprotected places on boats, under car bonnets, etc. Fuse not included.

Max. Code
30A FH18



ANL MEGA-FUSE

2" BLADE GOLD-PLATED

Low voltage High current See section 18 for holders

Amps	Code
80A	ANL80
100A	ANL100
150A	ANL150
200A	ANL200



AUTOMOTIVE FUSE

SECTION 18

Gold Plated High Current Heavy Duty Car Audio Fuse Holders Fuse Blocks and more...



FUSE HOLDERS

Chassis mount. Bakelite.

20x5mm CEB/TBX

Code
FH3



32x6.35mm MGC/TDL

Code
FH2

FUSE HOLDER

Screws open with a coin or screwdriver. Chassis mount. Extrudes only 2mm Hi-Temp plastic.

20x5mm CEB/TBX

Code
FH31



FUSE HOLDER

Bayonet lid opens with a screwdriver. Chassis mount. Bakelite. 10A.

32x6.35mm MGC/TDL

Code
FH21



MGC/TDL FUSE HOLDER

Chassis mount Suit 32 x 6.35mm fuse Clip off face.

Code
FH12



MGC/TDL FUSE HOLDER

In-line kit Suit 32 x 6.35mm fuse Clear plastic

Code
FH5



MGC/TDL FUSE HOLDER

In-line with lead. Suit 32 x 6.35mm fuse Popular bayonet type Ready made with wire No soldering required.

Code
FH4



MGC/TDL HEAVY DUTY

Wired with 12 gauge Suit 32 x 6.35mm fuse Screw barrel. High temperature plastic. No soldering required.

Code
FH8



MGC/TDL WEATHER-PROOF

RUBBER BOOT TYPE

Heavy duty Water proof Yellow rubber 3AG 15A Max Chromium Crimp

Code
FH306



SCREW-DOWN FUSE HOLDER

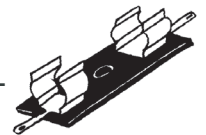
Fibre-Glass. Chassis mount

20x5mm CEB/TBX

Code
FH14

32x6.35mm MGC/TDL

Code
FH16



PCB MOUNT FUSE ENDS

10mm MFL/HRC each.

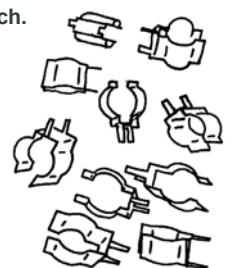
Code
FH1038

5mm CEB/TBX

Code
FH9

6.35mm MGC/TDL

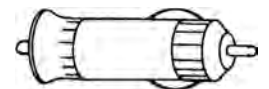
Code
FH10



MGC/TDL FUSE HOLDER

Inside cigarette lighter plug High temp casing with holder Suit 32x6.35mm fuse

Code
P810



→ Circuit-Breakers

PANEL MOUNT BREAKERS

Thermal. Resettable. AC/DC 240Vac max. 50Vdc max. 150% Slow. 200% Fast.

Amps	Code
2A	PCB2
3A	PCB3
5A	PCB5
10A	PCB10
15A	PCB15



PANEL MOUNT BREAKERS

240Vac max. 50Vdc max. 150% Slow. 200% Fast.

Amps	Code
3A	CRB3
5A	CRB5
10A	CRB10
15A	CRB15
20A	CRB20
25A	CRB25



RESETTABLE GOLD SERIES

AUTOMOTIVE FUSES

See section 18 for our range of Gold Plated Heavy Duty Car stereo Fuse blocks.





→ Relays

AUTOMOTIVE RELAY

Common Relay 6.35mm Tags
Panel mount Weather proof
Automotive, etc. 12V 30A

Type	Code
SPDT	TW3415



SOCKET SUIT ABOVE

SOLDER TERMINALS

Code
TW3417

WIRING HARNESS

30A Cable 80cm

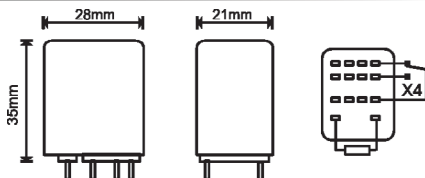
Code
TW3416



4PDT HIGH QUALITY RELAY

Heavy duty construction.
Reliable. PCB mount.
Silver Contacts. 12V
Coil.160 Ohm. 4PDT 5A

Code
FRL264

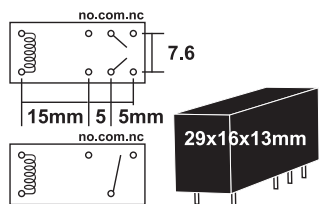


POWER RELAY - POPULAR REPLACEMENT TYPE

Sealed, low profile. Std DIN
pinouts. 8A/12A 240VAC contacts.

12VDC 576Ω

Type	Code
DPDT	FTR212
SPDT	FTR112



24VDC 2300Ω

Type	Code
DPDT	FTR224
SPDT	FTR124

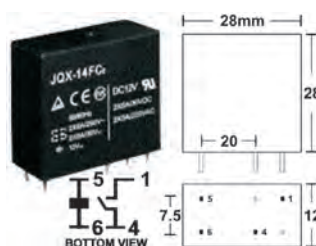
POWER RELAY JQX-14FC

Compact PCB Mount
10A 30Vdc/240Vac
12VDC 530mW

Type	Code
SPST	JQX14F12

48VDC 530mW

Type	Code
SPST	JQX14F48



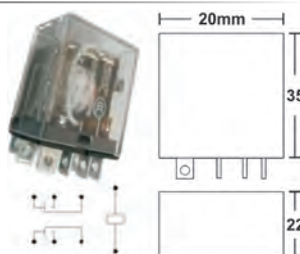
POWER RELAY JQX-13F

Tag/PCB mount DPDT
10A@28Vdc/277Vac

Coil	Type	Code
12Vdc	Tags	JQX13F12
12Vdc	PCB	JQX13F12W
24Vdc	Tags	JQX13F24

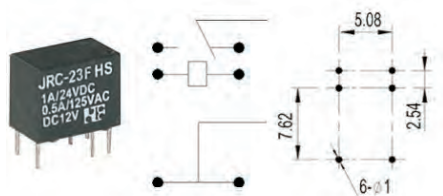
240Vac Coil

Coil	Code
240V	JQX13F240



RELAY PCB 12VDC SP-DT

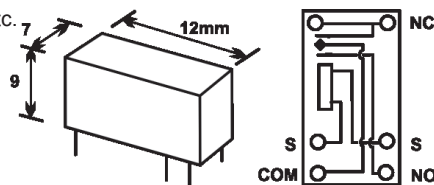
Coil	12Vdc 0.15W
SW	24Vdc 1A 125Vac 1/2A
Size	12.5x7.5x10
Pins	6x
Code	JRC23F



MINIATURE RELAY 5V SPDT

As used in telephones etc.

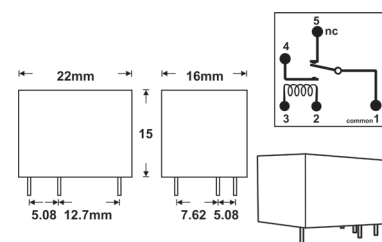
Coil	5V
Code	SY-5



MINIATURE RELAY 12V SPDT

Gold-overlay Silver-alloy

Coil	12Vdc/25mA
Contact	120W/960VA
Amax	5A
Vmax	250Vac
Code	LZ12HK



REED DIP RELAY - SPST

Can be driven directly by CMOS, TTL, etc. Vmax
100VDC/AC peak Imax 1/2A switch 1A carry.

12Vdc 1KΩ

Code
RL1A12

5Vdc 500Ω

Code
RL1A05



REED DIP RELAYS - SPDT

Can be driven directly by TTL, etc. Vmax
100VDC/AC peak Imax 1/4A switch 1/2A carry.

12Vdc 1KΩ

Code
RL1C12

5Vdc 500Ω

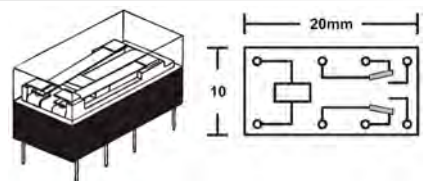
Code
RL1C05



MINIATURE PCB DIL RELAYS

Suit VCR's etc.

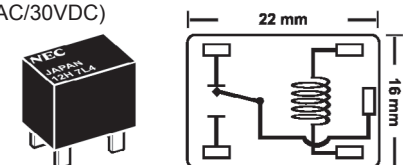
Volts	Code
6V	G2VN-6
9V	G2VN-9
12V	G2VN-12
24V	G2VN-24



NEC RELAYS

SPDT PCB type. 10A(240VAC/30VDC)

Volts	Code
12V	MR301-12

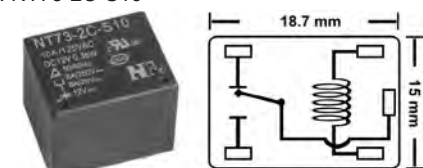


SPST RELAYS

6A SPDT PCB type. P/No. NT73-2C-S10

12Vdc
Code
NT73-2C-12

24Vdc
Code
NT73-2C-24



SOLID STATE RELAYS & OPTOCOUPLEDERS

SEE SECTION 01 SEMICONDUCTORS



→ **Knobs****KNOBS “CHICKEN HEAD”**

As used on Fender Amps, etc. 1/4”
6.35mm Half-Moon Grub screw

Colour	Code
Red	KB010
White	KB050
Blue	KB100
Yellow	KB150
Ivory	KB200
Black	KB250

**KNOBS****MATCHING EQUIPMENT STYLE**

6.35mm shaft, Grub screw fixing,
Same style, different sizes.

Size	Code
19x16mmØ	KB7760
16x20mmØ	KB7762
20x24mmØ	KB7764
19x35mmØ	KB7766

**KNOBS****PUSH ON - METRIC**

Suit 9mm mini potentiometer

Base	Top	Height	Code
15mmØ	11mmØ	14mm	KB7770

**KNOBS****PUSH ON STYLE**

6.35mm shaft, 18x20mmØ

Colour	Code
RED	KB7705
YELLOW	KB7713
BLACK	KB7707
WHITE	KB7715
BLUE	KB7709
GREY	KB7717

**KNOBS****SKIRT WITH NUMBER 1-10**

6.35mm shaft, Grub screw
fixing 23.5x36mmØ

Code
KB7549

**KNOBS****BRUSHED ALUMINIUM**

High quality brushed aluminium
finish, engraved pointer.
Suitable for Hi-Fi projects
6.35mm shaft, 14x22mmØ

Code
KB7022

**KNOBS****BLACK PLASTIC ALUMINIUM INSERT**

6.35mm shaft, 15x27mmØ

Code
KB7740

**KNOBS**

Size	Code
10x10x10mm	KNB681

**KNOBS**

Size	Code
ROUND 10x10mm	KNB683

**KNOBS**

Size	Code
15x10x10mm	KNB682

→ **Switches****ARMING SWITCH****SPST TOGGLE 12V 20A**

A universal nitrous arming switch
ON-OFF position, Led indicator flip
cover. Widely used for vehicle DIY.
12VDC 20A. Size: 80 x 50 x 17mm.

Colour	Code
Blue	SW403BU
Red	SW403RD
Green	SW403GN

**IGNITION BUTTON****N/C & N/O MOMENTARY**

Push Start Ignition Switch
for Racing Sport with LED
indicator. N/O, N/C and
indicator light all three
separate coloured (Blue,
Purple & Black) connection
points. Widely used for
ehicle DIY. 12VDC 20A.
Size: 85 x 33 x 30mm.

Colour	Code
Blue	SW402BU
Red	SW402RD



12VDC 20A. Size: 85 x 33 x 30mm.

CUT-OFF SWITCH 100A**12V/24V 100A**

110x60mm
removeable key

Code
SW401

**CUT-OFF SWITCH 400A****60V EXTRA HEAVY DUTY**

Code
SW400

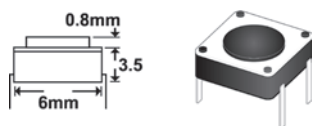




→ Switches

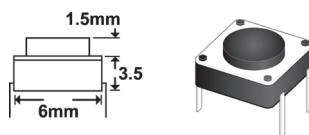
TACT SWITCH 0.8mm

Code
SW172



TACT SWITCH 1.5mm

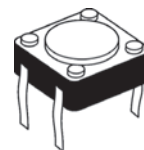
Code
SW173



OEM TACT

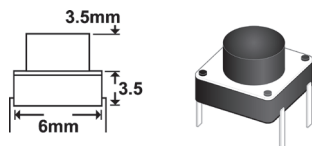
Samsung Akai etc.
Base 3.5x6x6mm
Knob height
Choice:

Knob	Code
0.5mm	SW250
1.5mm	SW9367



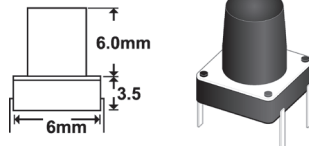
TACT SWITCH 3.5mm

Code
SW174



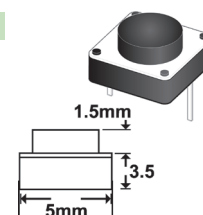
TACT SWITCH 6mm

Code
SW175



TACT SWITCH 2 PIN

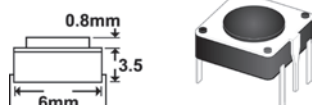
Knob	Type	Code
1.5mm	2 pin	SW79



TACT SWITCH 0.8mm

Ground pin

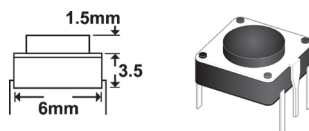
Code
SW176



TACT SWITCH 1.5mm

Ground pin

Code
SW177

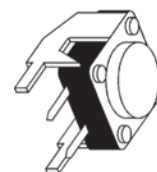


MOMENTARY PUSH

RIGHT ANGLE 1.5mm

Suit TV,
VCR,
CD, etc..
Short

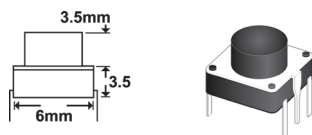
Code
SW95



TACT SWITCH 3.5mm

Ground pin

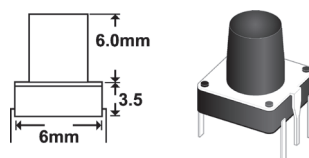
Code
SW178



TACT SWITCH 6mm

Ground pin

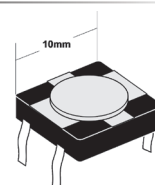
Code
SW179



MOMENTARY PUSH SWITCH

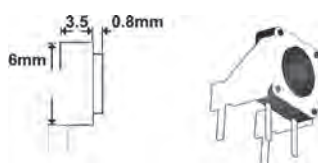
4x10x10mm
Soft Rubber.
Keyboards

Code
SW260



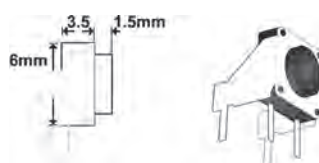
TACT SWITCH 0.8mm

Code
SW180



TACT SWITCH 1.5mm

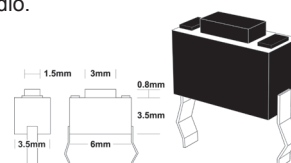
Code
SW181



TACT SWITCH 0.8mm

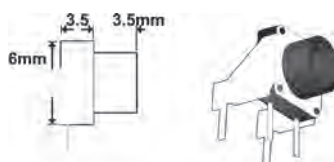
Suit car radios
and home audio.

Code
SW520



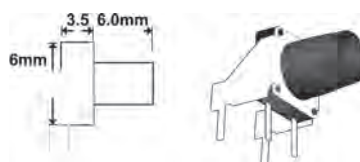
TACT SWITCH 3.5mm

Code
SW182



TACT SWITCH 6mm

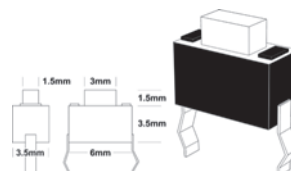
Code
SW183



TACT SWITCH 1.5mm

Suit Philips and Sony audio.

Code
SW511



LEVER SWITCH 7x4mm

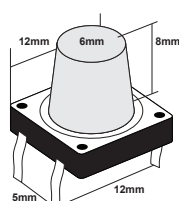
Sony 1-762-621-21

Code
SW2121



TACT SWITCH 8mm

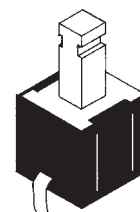
Code
SW80



PUSH SWITCH

Momentary
Single pole
Sony TV etc.

Type	Code
2 Pin	SW155



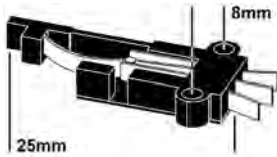


→ Switches

MICRO SWITCH SPDT

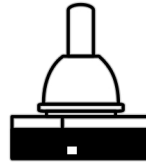
Momentary Double throw

Code
SWM300

**LAMP SWITCH**

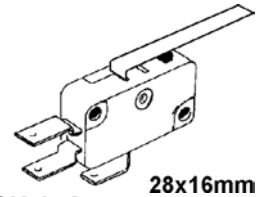
Classic white
Desk-top lamp
Type push

Type Code
SPST SWP312

**MICRO-SWITCH 10A**

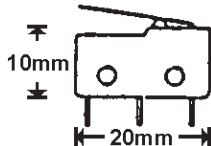
Single Pole Double Throw 6mm Tags 240Vac 10A

Lever Code
25mm SWM420

**MICRO-SWITCH 20mm**

EXTRA-SMALL
Single Pole Double
Throw 4mm Contacts

Power 5A/250Vac
Lever 15mm
Code SWM400

**MOMENTARY**

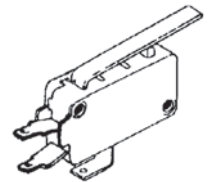
3A 125VAC
6mm Panel
mount. DPDT

Colour Code
Red MS300R
Black MS300B

**MICRO-SWITCH 15A**

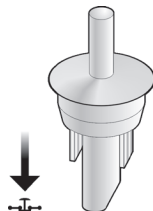
Single Pole Double Throw
Power 240Vac 15A
Economy Classic

Tags Code
6.3mm MS202
4.6mm MS199

**TAMPER SWITCH NC**

NC Normally Closed (Push to open.)

Code
SWP800

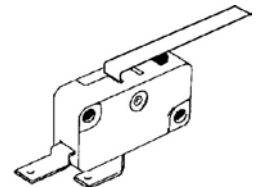
**FOOT SWITCH****SPST CARLING**

Code
SWT110P

**MICRO-SWITCH SPST**

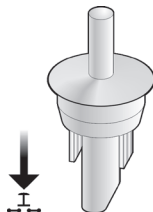
Single Pole Single Throw Power 240Vac 15A

Code
SW1600

**TAMPER SWITCH NO**

NO Normally Open (Push to close)

Code
SWP801

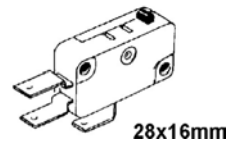
**FOOT SWITCH****DPDT CARLING**

Code
SWP316

**MICRO-SWITCH 15A**

Single Pole Single Throw Power 240Vac 15A

Tags Code
4.6mm MS107
6.3mm MS106

**MOMENTARY****NORMALLY CLOSED**

Code
SWM202

**NORMALLY OPEN**

Code
SWM201

FOOT SWITCH

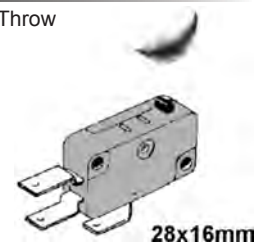
Heavy Duty Stomp 6A
250V DPDT Kick On
Kick Off Hole 12mm

Code
SWP328

**LIGHT PRESSURE**

Single Pole Single Throw Power 240Vac 16A

Tags Code
4.6mm MS298
6.3mm MS301

**PUSH BUTTON****MOMENTARY NORMALLY OPEN**

Code
SWM203

**PUSH ON PUSH OFF**

Code
SWP305

FOOT SWITCH

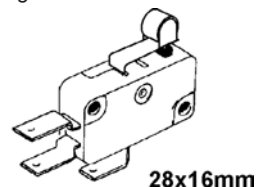
LATCHED 3 Pole - 2
Throw Suit Guitar
Peddles, etc. Fender,
etc. Hole 12mm

Code
SW3PDT

**ROLLER-LEVER 14mm**

Roller wheel mechanical triggering
14mm lever short length 10A 250Vac

Tags Code
6.3mm SWM424

**PUSH BUTTON****MOMENTARY NORMALLY OPEN**

Code
SWM205

**PUSH ON PUSH OFF**

Code
SWP308

START BUTTON**N/C & N/O MOMENTARY**

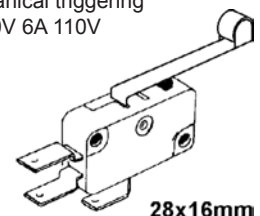
Colour Code
Blue SW402BU
Red SW402RD

12VDC 20A.
85x33x30mm.

**ROLLER-LEVER 28mm**

Roller wheel mechanical triggering
28mm lever 3A 250V 6A 110V

Tags Code
6.3mm SWM425





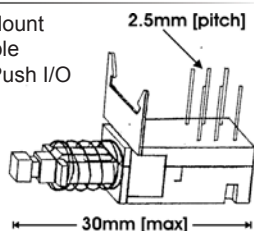
02 COMPONENTS

→ Switches

MINI PUSH

2A 12VDC PCB Mount
Double Pole Double
Throw Miniature Push I/O

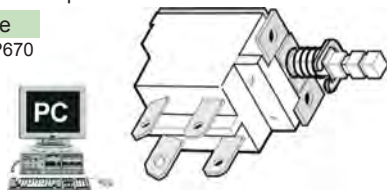
Code
SWP150



20MM THREADED

AT-PC Computer

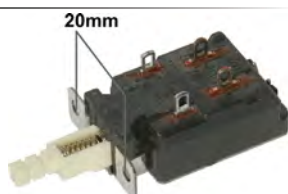
Code
SWP670



20MM

4A 250V SPST
MHD 20mm

Code
DS685



20MM PCB TYPE

4A 250V SPST
PCB mount.
Suit Sony etc.
MHD 20mm

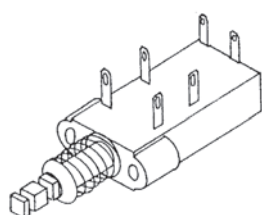
Code
DS686



19MM THREADED

DPST with Tags
& Remote reset.
MHD 19mm
Threaded.

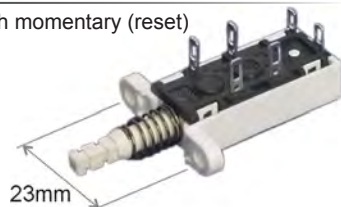
Code
SWP640



23MM UNIVERSAL

DPST with momentary (reset)

Code
SWP641



MAINS POWER

SEE SECTION TWELVE
AC POWER



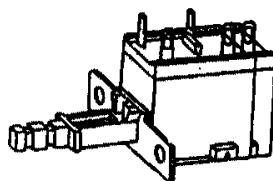
20MM KOREA TV

4A 250VAC

Code
SWP952

W/ Remote
4A 250VAC

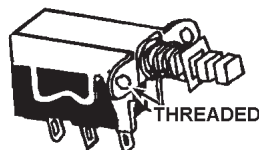
Code
SWP953



20MM UNIVERSAL

10A 250V SPDT.

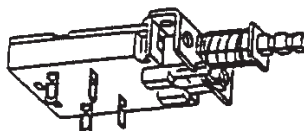
Code
DS680



20MM THREADED

PCB & TAGS (Sony/Sharp)

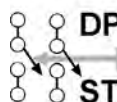
Code
SWP625



22.5MM PHILIPS TYPE

4822-276-14024

Code
SWP4024



LG TV POWER

PCB Mount DPST

Code
SWP4026



TV POWER

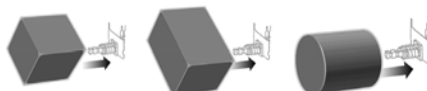
LG, etc. SPST PCB 5A
12VDC 6600VM1001A

Code
SW1001



KNOBS

Size	Code
ROUND 10x10mm	KNB683
10x10x10mm	KNB681
15x10x10mm	KNB682



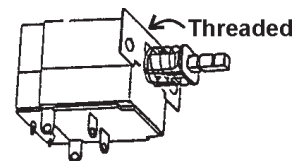
SONY/JVC TYPE

MHD 20mm

Code
SWP655

With remote.
MHD 20mm

Code
SWP515



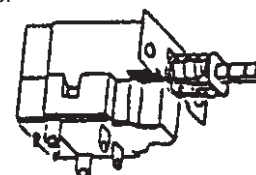
26MM SONY SWITCH

Large bracket type.

Code
SWP656

With remote.
26mm bracket.

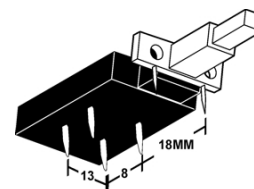
Code
SWP516



20MM PHILIPS

482227613816 PCB Mount

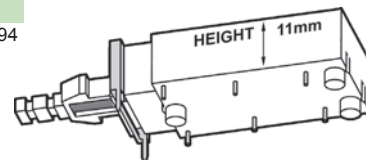
Code
SWP3816



AKAI UNIVERSAL

Std Low Profile As
below but 11mm

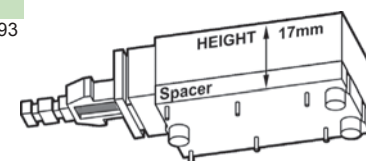
Code
SWP394



AKAI UNIVERSAL

With height extension 17mm.

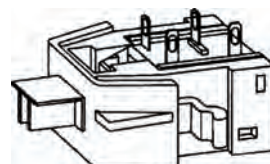
Code
SWP393



GRUNDIG TV

With remote function.

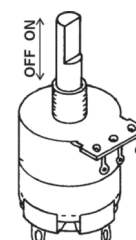
Code
SWP514



VOLUME SWITCH

Volume control with
pull out two pole
AC rated switch.

Value	Code
5K	VRS105
20K	VRS120
50K	VRS150
100K	VRS100

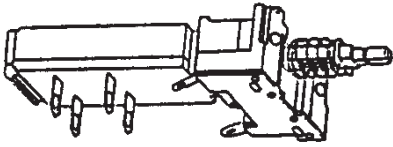




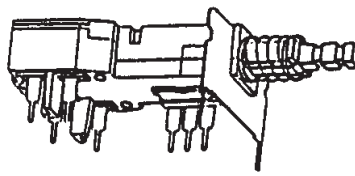
→ Switches

23MM BRACKET

Code
SWP618

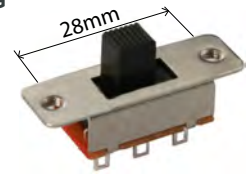
**PCB MOUNT**

Code
SWP532

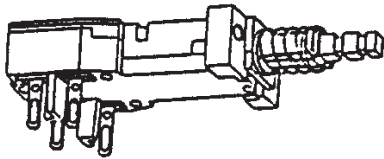
**DPDT SLIDE SWITCH**

28mm MOUNTING

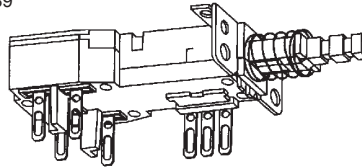
Code
SW30

**18MM PLASTIC**

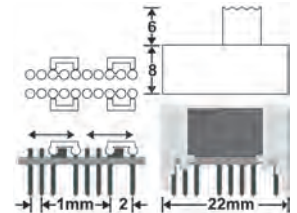
Code
SWP580

**23MM BRACKET**

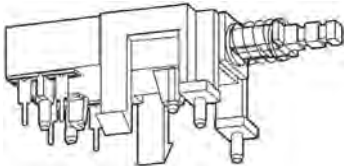
Code
SWP589

**4P3T SLIDE SWITCH**

Code
SW86

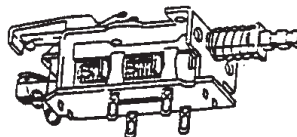
**BRACKET PCB**

Code
SWP582

**18MM PHILIPS TYPE**

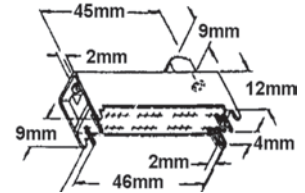
With remote.

Code
SWP528

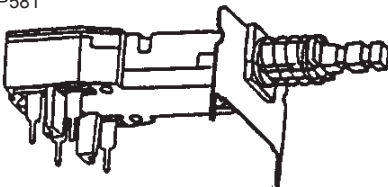
**8P4T SLIDE SWITCH**

8 Pole 4 Position 40 Pin

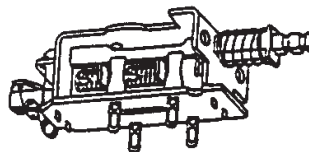
Code
SW90

**PCB MOUNT**

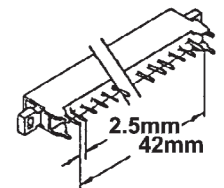
Code
SWP581

**18MM PHILIPS TYPE**

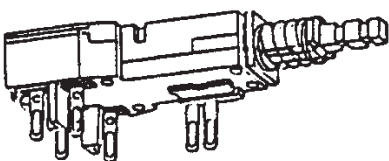
Code
SWP658

**18 PIN REC/PLAY**

Code
RPS20

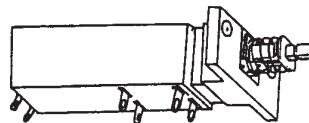
**NO BRACKET**

Code
SWP575

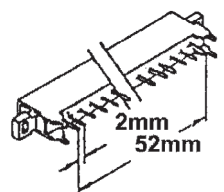
**23MM PHILIPS TYPE**

With remote.

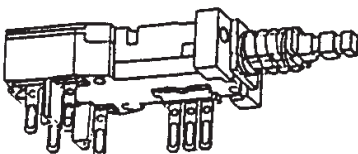
Code
SWP622

**27 PIN REC/PLAY**

Code
RPS25

**18MM PLASTIC**

Code
SWP650

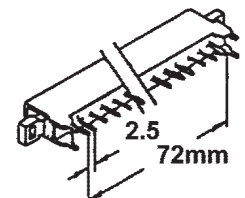
**KEY LOCK Physical**

90° Turns 25mm arm
19mm hole

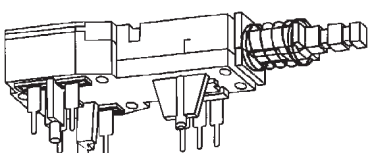
Code
AKL101

**30 PIN REC/PLAY**

Code
RPS30

**PCB MOUNT**

Code
SWP583

**KEY LOCK SP3T**

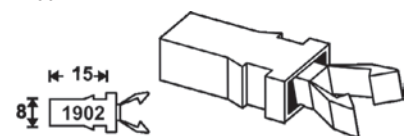
3 Position 24VDC 4A
240VAC 2A
19mm Hole

Code
AKS8071

**DOOR CATCHER SMALL**

Push close, Push open

Code
DL1902





02 COMPONENTS

→ Switches

SUBMINIATURE

1.5A 250V SPDT

Code
SWT102



TOGGLE SWITCH

6A 250V DPDT

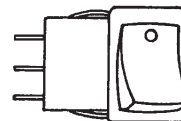
Code
SWT132



SPDT ROCKER SWITCH

Snap fit 20x13mm 6A-240V

Type SPDT SPST
Code SW215 SW210



SUBMINIATURE

1.5A 250V DPDT

Code
SWT106



CENTRE OFF

6A 250V DPDT

Code
SWT134



DPST ROCKER SWITCH

Snap fit
20x13mm
4A-240V

Code
SW200



MINIATURE

3A 250V SPDT

Code
SWT112



STANDARD

1.5A 250V SPST

Code
SWT121



DPST ILLUMINATED

Green 240VAC
20x13mm 4A-240V

Code
SW205



MINIATURE

Centre off 3A 250V SPDT

Code
SWT113



TOGGLE SWITCH

SPST CARLING

Code
SWT110



DPST ROCKER

Snap fit
20x22mm
5A-240V

Code
SW202



MINIATURE

3A 250V DPDT

Code
SWT117



STANDARD

1.5A 250V DPDT

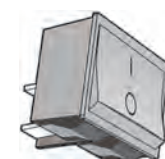
Code
SWT125



COMPUTER POWER

Snap fit
25x25mm
10A-240V

Code
SW203



MINIATURE

Centre off 3A 250V DPDT

Code
SWT118



HEAVY DUTY

Centre off 3A 250V DPDT

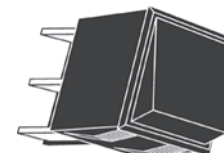
Code
SWT127



DPDT ROCKER

Snap fit
30x22mm
10A-240V

Code
SW220



MINIATURE

Snap fit 20x13mm 3A-250V

Code
SWT118P



ILLUMINATED

SPST 12V 20A
60x30x16mm

Colour Code
Blue SW403BU
Red SW403RD
Green SW403GN



DPDT ILLUMINATED

RED fit 30x22mm
10A-240V

Code
SW225

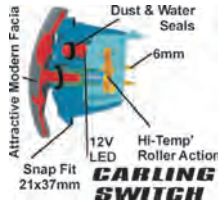




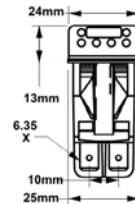
→ Switches

CARLING-SWITCH

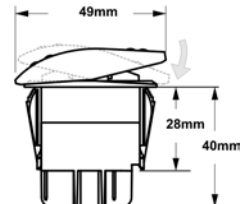
Premium Quality
Black Plastic
Tactile feel Large
Format 21x36mm
Hole 6.3mm Tags
12Vdc 20Amp
24Vdc 15Amp

**HIGH-CURRENT**

20A Long Life
150,000 Cycles
-40°/+85° temp
Fully sealed
Weather resistant
"No lubricant"
Separate roller
Actuator arm

**ULTRA-RELIABLE**

Control Panels
Automotive dash
Modern styled
Tactile feel positive
snap action motion
Quality materials
Carling switch

**NON-ILLUMINATED****SPST TOGGLE**

No Lamp 12Vdc
20A 24Vdc 15A
Toggle On/Off x1

Type	Code
ON/OFF	SW-V1BA

**NON-ILLUMINATED****MOMENTARY ON**

Centre Off 12Vdc
20A 24Vdc 15A
M-On/Off/M-On x1

Type	Code
SPDT	SW-V8BA

**GREEN-SQUARE****DPST TOGGLE**

Opaque white off
12Vdc Green LED
Separate wired
Toggle On/Off x1

Type	Code
DPST	SW-VAD1

**NON-ILLUMINATED****DPST TOGGLE**

No Lamp 12Vdc
20A 24Vdc 15A
Toggle On/Off x2

Type	Code
ON/OFF	SW-VABA

**NON-ILLUMINATED****MOMENTARY ON**

Centre Off 12Vdc
20A 24Vdc 15A
M-On/Off/M-On x2

Type	Code
DPDT	SW-VLBA

**GREEN-SQUARE****DPDT TOGGLE**

Opaque white off
12Vdc Green LED
Separate wired
Toggle On/Off/
On x2

Type	Code
DPDT	SW-VJD1

**NON-ILLUMINATED****SPDT TOGGLE**

No Lamp 12Vdc
20A 24Vdc 15A
Toggle On/On x1

Type	Code
ON/ON	SW-V4BA

**RED-BAR****SPST TOGGLE**

12Vdc Lamp
Single Bar
Indicator
Toggle On/Off x1

Type	Code
ON/OFF	SW-V1DAB1

**GREEN-SQUARE****DPDT MOMENTARY**

Centre Off push
Opaque white off
12Vdc Green LED
M-On/Off/M-On x2

Type	Code
DPDT	SW-VLD1

**NON-ILLUMINATED****SPDT TOGGLE**

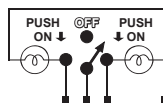
Centre OFF 12Vdc
20A 24Vdc 15A
Toggle On/Off/On

Type	Code
ON/OFF/ON	SW-V6BA

**RED-BAR**

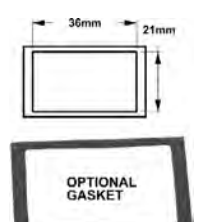
12Vdc Lamp Single Bar Indicator
Toggle On/Off x2

Type	Code
ON/OFF	SW-VADAB

DPST TOGGLE**GASKET**

Rubber foam
Weather resistant
Panel Seal
21x36mm I/D +
Surround

Code
SW-GASKET

**NON-ILLUMINATED****DPDT TOGGLE**

Centre OFF 12Vdc
20A 24Vdc 15A
Toggle On/Off/On

Type	Code
DPDT	SW-VJBA

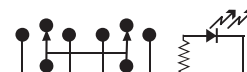
**RED-BARS****SPDT TOGGLE**

Centre Off 12Vdc
Lamps Dual Indicator
Toggle On/Off/On x1

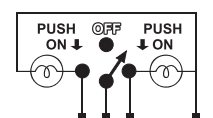
Type	Code
SPDT	SW-V6DAD



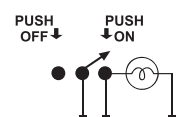
**Momentary
Centre Off
DPDT**



**Toggle
Centre-Off**



**Toggle
SPST**

**NON-ILLUMINATED****MOMENTARY ON**

No Lamp 12Vdc 20A
24Vdc 15A
Push M-On/Off x1

Type	Code
SPST	SW-V2BA

**RED-SQUARE**

12Vdc Lamp Single
Lamp Bright On
Toggle On/Off x1

Type	Code
SPST	SW-V1DAB2





→ Jiffy Boxes

1551 Plastic Enclosures Miniature

Plain or Flanged lids

- Ideal for mounting small printed circuit boards or for use as potting boxes.
- Flanged lid versions are perfect for wall or shelf mounting or attaching with a tie wrap.
- Moulded in black general purpose ABS plastic.
- Satin texture finish.
- Complete with lid and two self tapping screws.
- Black plated screws are colour matched to enclosure.
- 2 PCB standoffs moulded into the base.
- Lap joint construction protects against the ingress of dust and splashing water.
- Designed to meet IP54.



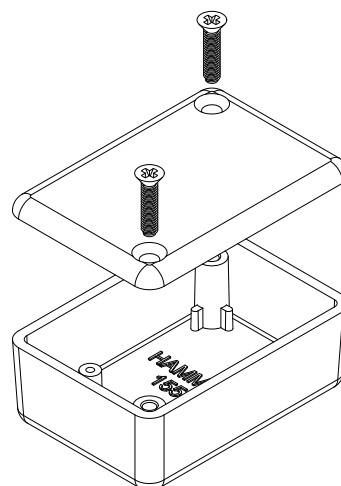
Plain lid

Length	Width	Height	Code
50	35	20	1551GBK
60	35	20	1551HBK
80	40	20	1551KBK



Flanged lid

Length	Width	Height	Code
50	35	20	1551GFLBK
60	35	20	1551HFLBK
80	40	20	1551KFLBK



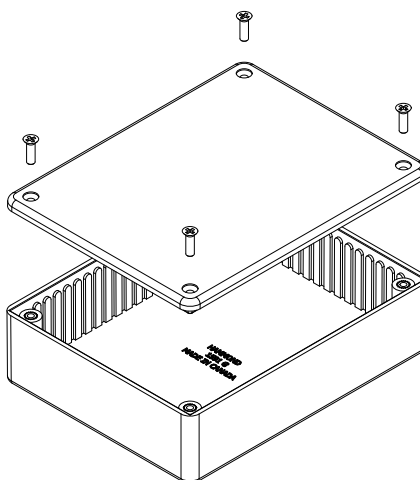
More shapes and sizes are available on request with short delay. Please enquire.

1591 Plastic Enclosures

WITH CARD (PCB) GUIDES

- Ideal for mounting printed circuit boards.
- Integral card guides accept 1.5 mm thick circuit boards.
- Lap joint construction provides protection against the ingress of dust and splashing water.
- Designed to meet IP54.
- Moulded from economical black plastic.
- Black self-tapping #4 x 12mm Phillips screws.
- Also available as a flame retardant ABS plastic version.

Length	Width	Height	Code
100	50	21	1591ASBK
112	62	27	1591BSBK
120	65	36	1591CSBK
150	80	46	1591DSBK
191	110	57	1591ESBK



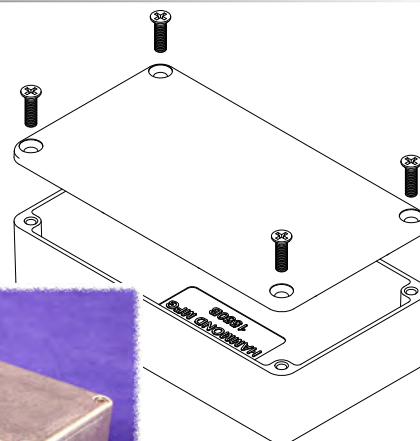
This series uses self tapping screws & general purpose plastic where economy is important

1550 Diecast Aluminium Enclosures

LAP JOINT IP54 & EMI-RFI SHIELDED

- Rugged, die-cast aluminum alloy electronic instrument enclosure.
- Tough yet easy to machine.
- Lap joint construction protects against the ingress of dust and splashing water and also provides for improved EMI/RFI shielding.
- Unpainted version is vibra finished for a smooth surface with no sharp edges.
- Four M3 12 mm long stainless steel Phillips head machine screws secure the lid into factory tapped holes.
- Designed to meet IP54
- No internal ribs.
- Low side wall draft angle.

Length	Width	Height	Code
80	55	21	1550P
115	64	26	1550B
140	102	73	1550K
165	127	73	1550L



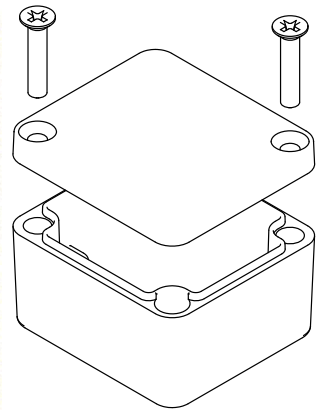


1550Z Thick Wall Watertight Diecast Aluminium Enclosures

IP66 WEATHER PROOF

- Economical thick wall diecast aluminum watertight enclosure.
- Two piece "tongue & groove" construction for protection against access of dust and water.
- Ideal for repetitive opening and closing.
- Easy to wall mount using "through box - blind hole" construction (except 1550Z120). Access to blind holes is outside the gasket ring.
- Unpainted version is vibra finished for a smooth surface with no sharp edges.
- Polyester powder painted inside and out for a lasting finish.
- Philips lid screws are outside the gasket protection area
- Designed to meet IP66 - gasket is pre-formed, one-piece silicone rubber.
- No internal ribs for easy installation of connectors without interference or additional milling.

Length	Width	Height	Code
50	45	30	1550Z101
115	90	55	1550Z113
160	100	60	1550Z116
171	121	55	1550Z120



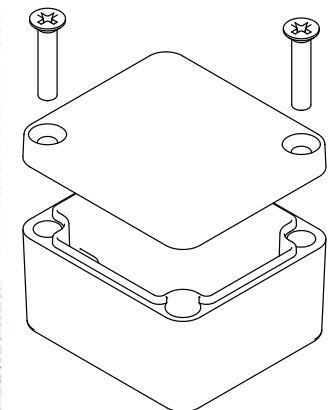
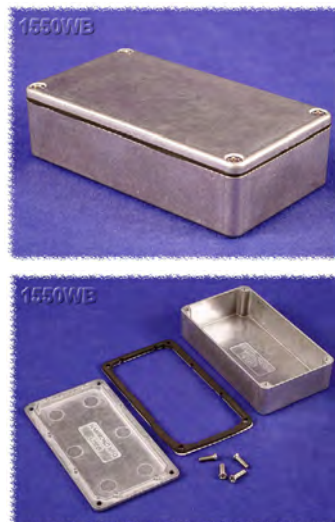
More shapes and sizes are available on request with short delay. Please enquire.

1550W Light Duty Watertight Diecast Aluminium Enclosures

IP66 WEATHER PROOF

- Rugged, die-cast aluminium watertight enclosure.
- Tough yet easy to machine.
- Lap joint construction with a self-adhesive, EVA foam gasket (included).
- Unpainted version is vibra finished for a smooth surface with no sharp edges.
- Polyester powder painted inside and out for a lasting finish.
- Four M3.5 x 12 mm long stainless steel, Philips head, machine screws secure lid into factory tapped holes.
- Designed to meet IP66.
- No internal ribs for easy installation of connectors without interference or additional milling.
- Low side wall draft angle - 2 degrees or less - for easy PCB mounting.

Length	Width	Height	Code
60	55	30	1550WQ
89	35	30	1550WA
115	64	55	1550WD
222	146	105	1550WH



More shapes and sizes are available on request with short delay. Please enquire.

1599 Hand Held Enclosures

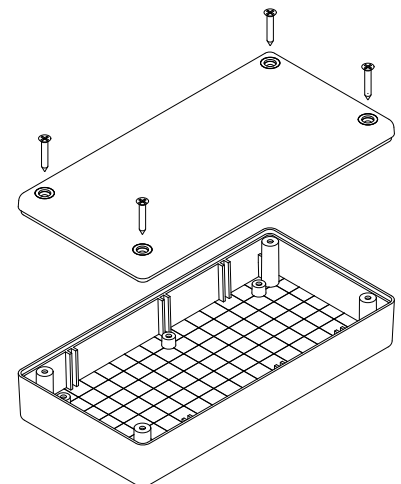
Recessed Facia Panel

- Attractively styled and ergonomically designed for use as a hand-held instrument enclosure.
- Moulded from economical plastic.
- Recessed top for membrane display or pad.
- Lap joint construction provides protection against the ingress of dust and splashing water.
- Deep top and shallow base are specifically designed to enhance the aesthetics of the enclosure and provide the user with flexibility and assembly efficiency.
- PCB standoffs in top and base.
- Designed to meet IP54.

Length	Width	Height	Code
130	65	25	1599BSGY
170	85	34	1599ESGY
220	110	44	1599HSGY
220	140	41	1599KSGY



More shapes and sizes are available on request with short delay. Please enquire.





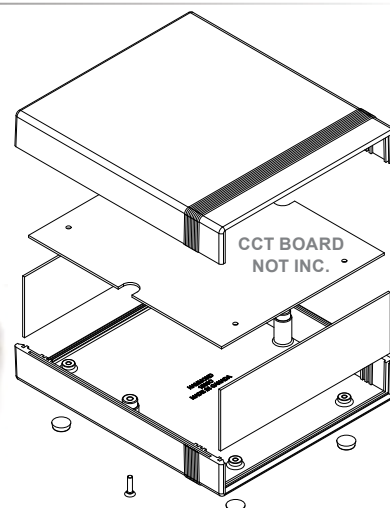
02 COMPONENTS

1598 Instrument Enclosures

Benchtop Style With Plastic End Panels

- Modern low profile instrument enclosure.
- Two sets of vertical 1.5 mm (0.062") P.C. board guides are moulded into the case halves at the front and rear.
- Moulded in general purpose ABS plastic.
- End panels are moulded in black ABS plastic.
- Easy access to the interior via the shell type construction.
- Designed to meet IP54.
- Integral horizontal printed circuit board stand-offs on Eurocard centres.

Length	Width	Height	Code
134	135	50	1598ASGYPBK
179	154	36	1598BSGYPBK
180	155	52	1598CSGYPBK
180	206	64	1598DSGYPBK
160	160	86	1598ESGYPBK

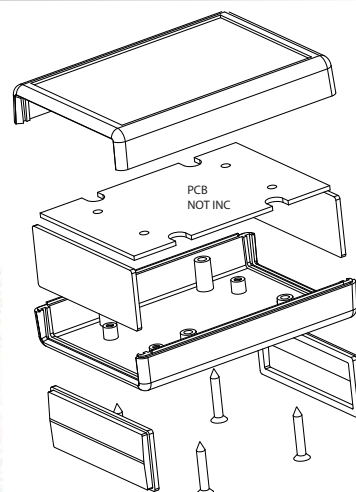


1593 Instrument Enclosures

Hand Held or Benchtop

- Electronic instrument enclosures, ideally suited for mounting PCBs.
- Ergonomically designed for a comfortable fit into the user's hand.
- Recessed top for membrane display or keypad.
- Available with or without removable end panels.
- Lap joint construction provides protection against the ingress of dust and splashing water.
- 1593QBK supplied with battery door.
- Moulded in black ABS plastic with a satin texture.
- Unit is secured with self tapping screws.

Length	Width	Height	Removable Panels	Battery Door	Code
66	66	28	0	No	1593JBK
66	66	28	2	No	1593KBK
92	66	28	2	No	1593LBK
112	66	28	1	Yes	1593QBK



1455 Extruded Aluminium Enclosures

With Metal or Plastic End Panels

- Designed to house PCBs or for equipment interfacing.
- N size accepts standard Eurocards.
- PCBs mount horizontally by sliding into internal slots extruded into the enclosure body.
- Rugged body constructed from extruded clear anodised aluminium with a minimum thickness of 1.5 mm.
- Extruded body includes a slide removable belly plate (not C size).
- Available with two aluminium end panels and two separate black ABS plastic bezels or with two easy to machine, black solid ABS plastic end panels with integral bezels.



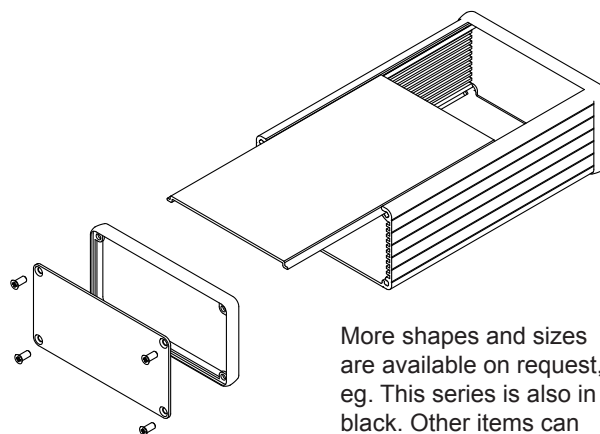
Plastic end panels

Length	Width	Height	Code
80	54	23	1455C802
120	78	27	1455J1202
120	78	43	1455K1202
120	103	31	1455L1202
120	103	53	1455N1202
160	78	43	1455N1602



Metal end panels

Length	Width	Height	Code
80	54	23	1455C801
120	78	27	1455J1201
120	78	43	1455K1201
120	103	31	1455L1201
120	103	53	1455N1201
160	78	43	1455N1601



More shapes and sizes are available on request, eg. This series is also in black. Other items can be ordered in with short delay. Please enquire.

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