

# **Wagner**

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**SECTION**

**02**

## **COMPONENTS**

**April 2007**

**Wagner Electronic Services has been supplying accessories to the electronic manufacturing, servicing & installation industry for over 20 years !**

We supply an extensive and comprehensive range of passive components including Capacitors, Inductors, Resistors, Filters, Crystals, Metal Oxide Varistors, PTC, Gas Arresters, Thermal Protectors, Fuses, Fuse Holders, Lamps, Globes, Relays, Switches for TVs, etc.

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## How to read Capacitor Codes

Code	Tolerance
B	$\pm 10\%$
C	$\pm 25\%$
D	$\pm 5\%$
F	$\pm 5\%$
H	$\pm 1\%$
G	$\pm 2\%$
J	$\pm 5\%$
K	$\pm 10\%$
M	$\pm 20\%$
N	$\pm 5\%$
P	$\pm 10\%, \pm 7\%$
Z	$\pm 80\%, \pm 20\%$

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:

<b>R</b>	tells us this is an EIA code
<b>DM</b>	Dipped case style (CM is molded case style)
<b>15</b>	is the case size code
<b>F</b>	is the dielectric code
<b>471R</b>	The R is a decimal point (if used) First two digits form the significant value Third is the multiplier, (470pF)
<b>J</b>	is the capacitance tolerance code (J is a 5%)
<b>5</b>	is the DC working voltage in hundreds of volts (500V)
<b>O</b>	is the temperature range
<b>C</b>	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	Gray	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  
(.0047nF)  
K = 10%  
2000V (DC)

MEF.0047

**CAPACITOR VALUES**

## PVC TUNERS

To suit AM radios.  
 Code PVC1

To suit AM-FM radios.  
 Code PVC5

**Buy Quantities  
 For A Discount  
 (Not Assorted Values)**



## CERAMIC 500V

General purpose replacement ceramics.

Code	Value	Code	Value
TH1	1pf	TH100	100pf
TH1.2	1.2μf	TH150	150pf
TH1.5	1.5pf	TH180	180pf
TH1.8	1.8pf	TH220	220pf
TH2.2	2.2pf	TH270	270pf
TH2.7	2.7pf	TH330	330pf
TH3.3	3.3pf	TH470	470pf
TH4.7	4.7pf	TH560	560pf
TH5.6	5.6pf	TH680	680pf
TH6.8	6.8pf	TH820	820pf
TH8.2	8.2pf	TH1000	1nf
TH10	10pf		
TH15	15pf		
TH18	18pf		
TH22	22pf		
TH27	27pf		
TH33	33pf		
TH47	47pf		
TH56	56pf		
TH68	68pf		
TH82	82pf		



## TRIMMER CAPACITORS

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



## CERAMIC 2KV (&3KV)

The "WR" series has been especially designed for use in pulse circuits such as horizontal and vertical output stages, power supplies etc. Low loss with minimal temperature drift.

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

**3KV TYPE - Suit Panasonic**  
 ECK362 \*3600 pf



## CERAMIC MONOLITHIC 50V

### TM SERIES LOW PROFILE CERAMIC CHIP CAPACITORS

They are small in size and extremely versatile.  
 Improved specifications, temperatures, tolerances.  
 Ideal for general replacement of ceramic capacitors, etc.

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



## CERAMIC 6KV

Same as "WR" Series, higher V.

Code	Value	Cost
DE100	100 pf	
DE150	150 pf	
DE220	220 pf	
DE330	330 pf	
DE390	390 pf	
DE470	470 pf	
DE560	560 pf	
DE680	680 pf	
DE820	820 pf	
DE1000	1000 pf	
DE1200	1200 pf	
DE1500	1500 pf	
DE1800	1800 pf	
DE2200	2200 pf	
DE3300	3300 pf	
DE3900	3900 pf	
DE4700	4700 pf	



### QUANTITY DISCOUNTS

Buy in bulk quantities and save!  
 Please enquire for your price today!



## 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**

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

## METALISED POLYPROPYLENE 250VDC/160VAC

Non-Inductive, wrap and fill with polyester tape and epoxy resin. Suit communication, high-end audio, X-over, filter networks, etc.

Code Value

www.farad.net

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

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



## 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.

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



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

## SOLENE (SCR) METALIZED POLY' 400Vdc/250Vac

Premium Audiophile grade. Made in France. SOLENE Fast Capacitors. PB Range. See... [www.wescomponents.com/capacitor/sole/pb.htm](http://www.wescomponents.com/capacitor/sole/pb.htm) These capacitors use the highest grade aluminium metalised polypropylene for impressive electrical & mechanical specs'. As used in our HDS audio crossovers.

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



## 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](http://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.

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

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



## SOLENE (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 piezo-electric effect. Very low series inductance or resistance and very high current capabilities. Ideal for speaker crossovers, audio coupling and high precision applications in Audio. SSS: "Parallel a tin foil across a large value capacitor and economically speed up the overall transient response of a crossover & speaker."

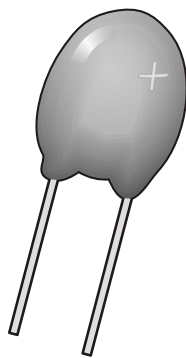
Buy Quantities  
For a Discount  
Please Enquire  
(Not Assorted Values)

Code	Value	Type	Volts
TN.01	.01uf	SN	1200V
TN.022	.022uf	SM	630V
TN.047	.047uf	SM	630V
TN.1	.1uf	SM	630V
TN.22	.22uf	SM	630V
TN.33	.33uf	SM	630V
TN.47	.47uf	SM	630V
TN.68	.68uf	SM	630V
TN.82	.82uf	SM	630V
TN1.0	1uf	SM	630V
TN1.5	1.5uf	SE	400V
TN2.0	2.0uf	SE	400V



## TANTALUM CAPACITORS

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



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

## METALLIZED POLYPROP' MKP1 200-250VAC

### MKP-1 Series (approval test - IEC384-16 / IEC68) FACO

European quality, pulse application, deflection circuits in TV, electronics ballast, timing, oscillators, etc.

Code Value Pitch

#### 250 Vdc / 200 Vac

.047MKP1-250	0.047µF	15
.068MKP1-250	0.068µF	15

#### 400 Vdc / 220 Vac

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

#### 630 Vdc / 250 Vac

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

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

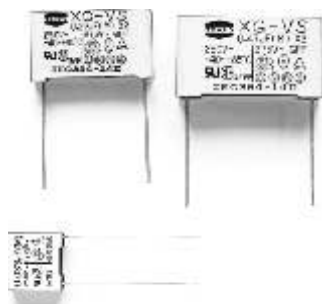


## POLYPROPYLENE 275VAC - LINE CAP

### 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

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



## METALLIZED POLYPROP' MKP2 200-220VAC

### MKP-2 Series (approval test - IEC384-16 / IEC68) FACO

European quality, pulse application, deflection circuits in TV, electronics ballast, snubber, SCR commutating circuits, applications high current.

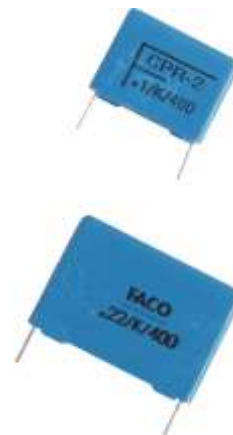
250 Vdc / 200 Vac Value Pitch

.1MKP2-250	0.1	15
.15MKP2-250	0.15	15

#### 400 Vdc / 220 Vac

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

Buy Quantities  
For a Discount  
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.

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



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

## METALLIZED POLYPROP' MKPX2 275VAC

### MKP-X2 Series Approvals - EN132400, VDE565-1 Made By FACO

European quality. Mains interference suppression. All X2 capacitors have leads of 6mm length for PCB mount

275Vac Value Pitch

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

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



## POLYESTER 63VAC 100VDC

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



## POLYESTER 250VAC 630VDC

NH.001	1nf
NH.0012	1.2nf
NH.0015	1.5nf
NH.0018	1.8nf
NH.0022	2.2nf
NH.0027	2.7nf
NH.0033	3.3nf
NH.0039	3.9nf
NH.0047	4.7nf
NH.0056	5.6nf
NH.0068	6.8nf
NH.0082	8.2nf
NH.01	10nf
NH.015	15nf
NH.022	22nf
NH.033	33nf
NH.047	47nf
NH.056	56nf
NH.068	68nf
NH.082	82nf
NH.1	100nf
NH.22	220nf
NH.33	330nf
NH.39	390nf
NH.47	470nf
NH.68	680nf
NH.82	820nf
NH1	1µf



## POLYESTER 600VAC 2000VDC

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



## POLYESTER MKT RANGE

Made by FACO. European excellent for multipurpose blocking, coupling, bypass suppression, etc.

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

### POLYESTER MKT-5 (5mm Pitch)

63Vdc / 40Vac	
1MKT5-63	1µF
2.2MKT5-63	2.2µF

100 Vdc / 63 Vac	
.001MKT5-100	0.001µF
.0015MKT5-100	0.0015µF
.0022MKT5-100	0.0022µF
.0033MKT5-100	0.0033µF
.0047MKT5-100	0.0047µF
.0068MKT5-100	0.0068µF
.01MKT5-100	0.01µF
.015MKT5-100	0.015µF
.022MKT5-100	0.022µF
.033MKT5-100	0.033µF
.047MKT5-100	0.047µF
.068MKT5-100	0.068µF
.1MKT5-100	0.1µF
.15MKT5-100	0.15µF
.22MKT5-100	0.22µF
.33MKT5-100	0.33µF
.47MKT5-100	0.47µF

250 Vdc / 160 Vac	
.0068MKT5-250	0.0068µF
.01MKT5-250	0.011µF
.015MKT5-250	0.015µF
.022MKT5-250	0.022µF
.033MKT5-250	0.033µF
.047MKT5-250	0.047µF
.068MKT5-250	0.068µF
.1MKT5-250	0.1µF

400 Vdc / 200 Vac	
.001MKT5-400	0.001µF
.0015MKT5-400	0.0015µF
.0022MKT5-400	0.0022µF
.0033MKT5-400	0.0033µF
.0047MKT5-400	0.0047µF
.0068MKT5-400	0.0068µF
.01MKT5-400	0.01µF
.015MKT5-400	0.015µF
.022MKT5-400	0.022µF
.033MKT5-400	0.033µF
.047MKT5-400	0.047µF

### POLYESTER MKT-10 (10mm pitch)

100 Vdc / 63 Vac	
.33MKT10-100	0.33µF
.47MKT10-100	0.47µF
.68MKT10-100	0.68µF

250 Vdc / 160 Vac	
.068MKT10-250	0.068µF
.1MKT10-250	0.1µF
.15MKT10-250	0.15µF
.22MKT10-250	0.22µF
.33MKT10-250	0.33µF

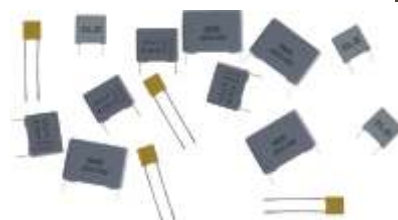
400 Vdc / 200 Vac	
.015MKT10-400	0.015µF
.022MKT10-400	0.022µF
.033MKT10-400	0.033µF
.047MKT10-400	0.047µF
.068MKT10-400	0.068µF
.1MKT10-400	0.1µF

630 Vdc / 220 Vac	
.0047MKT10-630	0.0047µF
.0068MKT10-630	0.0068µF
.01MKT10-630	0.01µF
.015MKT10-630	0.015µF
.022MKT10-630	0.022µF
.033MKT10-630	0.033µF

## POLYESTER MKT CONTINUED...

Code Breakdown  
Value (uf), Series, Pitch, Voltage.  
Eg: .47MKT10-100  
MKT-10 series (10mm pitch) 0.47uf 100V

PART#	PITCH
MKT-5	(5mm Pitch)
MKT-10	(10mm Pitch)
MKT-15	(15mm Pitch)
MKT-22	(22.5mm Pitch)



### POLYESTER MKT-15 (15mm pitch)

100 Vdc / 63 Vac	
.33MKT15-100	0.33µF
.47MKT15-100	0.47µF
1.5MKT15-100	1.5µF
2.2MKT15-100	2.2µF

250 Vdc / 160 Vac	
.15MKT15-250	0.15µF
.33MKT15-250	0.33µF
.68MKT15-250	0.68µF
1MKT15-250	1µF
1.5MKT15-250	1.5µF
2.2MKT15-250	2.2µF

400 Vdc / 200 Vac	
.047MKT15-400	0.047µF
.068MKT15-400	0.068µF
.1MKT15-400	0.1µF
.15MKT15-400	0.15µF

630 Vdc / 220 Vca	
.022MKT15-630	0.022µF
.033MKT15-630	0.033µF
.047MKT15-630	0.047µF
.068MKT15-630	0.068µF

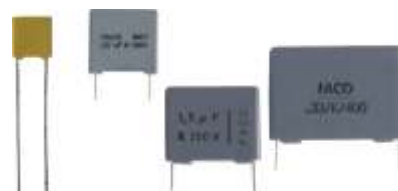
### POLYESTER MKT-22 (22.5mm)

100 Vdc / 63 Vac	
1MKT22-100	1µF
1.5MKT22-100	1.5µF
2.2MKT22-100	2.2µF
3.3MKT22-100	3.3µF

250 Vdc / 160 Vac	
.33MKT22-250	0.33µF
.47MKT22-250	0.47µF
.68MKT22-250	0.68µF
1MKT22-250	1µF
1.5MKT22-250	1.5µF

400 Vdc / 200 Vac	
.22MKT22-400	0.22µF
.33MKT22-400	0.33µF
.47MKT22-400	0.47µF

630 Vdc / 220 Vac	
.1MKT22-630	0.1µF
.15MKT22-630	0.15µF
.22MKT22-630	0.22µF





## 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 AirConditioners, etc.  
 motor start, motor run, across line,  
 and many other GP applications.



New High Standard  
 Across Line Applications  
 Power Factor Corrections  
 Motor Run  
 and more...



## MAINS RATED 250VAC VERTICAL MOUNT

Code	WxHxDmm	Value	Voltage
2SML250	34x24x14	2.0µf	250Vac
3SML250	34x24x14	3.0µf	250Vac
4SML250	38x24x12	4.0µf	250Vac
5SML250	38x26x14	5.0µf	250Vac
6SML250	38x27x15	6.0µf	250Vac
8SML250	38x30x17	8.0µf	250Vac
10SML250	38x30x20	10µf	250Vac
20SML250	46x37x25	20µf	250Vac
25SML250	46x39x27	25µf	250Vac
30SML250	60x40x28	30µf	250Vac
40SML250	60x48x34	40µf	250Vac

## MAINS RATED 350VAC VERTICAL MOUNT

2SML350	38x24x12	2.0µf	350Vac
3SML350	38x26x14	3.0µf	350Vac
4SML350	38x29x16	4.0µf	350Vac
5SML350	38x30x17	5.0µf	350Vac
6SML350	38x32x20	6.0µf	350Vac
8SML350	38x35x23	8.0µf	350Vac
10SML350	38x37x25	10µf	350Vac
20SML350	60x39x28	20µf	350Vac
30SML350	60x48x34	30µf	350Vac
40SML350	60x54x39	40µf	350Vac

## MAINS RATED 400VAC VERTICAL MOUNT

2SML400	38x26x14	2.0µf	400Vac
3SML400	38x30x17	3.0µf	400Vac
4SML400	38x30x20	4.0µf	400Vac
5SML400	38x34x21	5.0µf	400Vac
6SML400	38x35x23	6.0µf	400Vac
8SML400	46x37x25	8.0µf	400Vac
10SML400	46x39x27	10µf	400Vac
20SML400	60x48x34	20µf	400Vac

## MAINS RATED 450VAC VERTICAL MOUNT

2SML450	38x27x15	2.0µf	450Vac
3SML450	38x30x20	3.0µf	450Vac
4SML450	38x35x23	4.0µf	450Vac
5SML450	38x37x25	5.0µf	450Vac
6SML450	46x37x25	6.0µf	450Vac
8SML450	46x39x27	8.0µf	450Vac
9SML500	46x39x27	9.0µF	500Vac
10SML450	60x39x28	10µf	450Vac
20SML450	60x54x39	20µf	450Vac



## MAINS RATED 250VAC HORIZONTAL MOUNT

Code	WxHxDmm	Value	Voltage
2SMF250	33x20x12	2.0µf	250Vac
3SMF250	33x24x14	3.0µf	250Vac
4SMF250	38x24x13	4.0µf	250Vac
5SMF250	38x25x14	5.0µf	250Vac
6SMF250	38x28x16	6.0µf	250Vac
8SMF250	38x28x16	8.0µf	250Vac
10SMF250	38x30x20	10µf	250Vac
20SMF250	46x37x27	20µf	250Vac

## MAINS RATED 350VAC HORIZONTAL MOUNT

2SMF350	38x24x13	2.0µf	350Vac
3SMF350	38x25x14	3.0µf	350Vac
4SMF350	38x28x16	4.0µf	350Vac
5SMF350	38x30x20	5.0µf	350Vac
6SMF350	38x30x21	6.0µf	350Vac
8SMF350	38x35x22	8.0µf	350Vac
10SMF350	38x36x25	20µf	350Vac

## MAINS RATED 400VAC HORIZONTAL MOUNT

2SMF400	38x25x14	2.0µf	400Vac
3SMF400	38x30x18	3.0µf	400Vac
4SMF400	38x30x20	4.0µf	400Vac
5SMF400	38x30x21	5.0µf	400Vac
6SMF400	38x35x23	6.0µf	400Vac
8SMF400	46x37x25	8.0µf	400Vac
10SMF400	46x39x27	10µf	400Vac

## MAINS RATED 450VAC HORIZONTAL MOUNT

2SMF450	38x28x16	2.0µf	450Vac
3SMF450	38x30x21	3.0µf	450Vac
4SMF450	38x35x22	4.0µf	450Vac
5SMF450	38x36x25	5.0µf	450Vac
6SMF450	46x37x25	6.0µf	450Vac
8SMF450	46x39x27	8.0µf	450Vac

## MAINS RATED 250VAC CYLINDER TYPE

Code	DxHmm	Value	Voltage
10SMR250	31x41	10µf	250Vac
20SMR250	36x53	20µf	250Vac
25SMR250	36x62	25µf	250Vac
30SMR250	36x62	30µf	250Vac
40SMR250	41x61	40µf	250Vac
60SMR250	46x77	60µf	250Vac

## MAINS RATED 350VAC CYLINDER TYPE

10SMR350	36x53	10µf	350Vac
20SMR350	36x62	20µf	350Vac
25SMR350	41x61	25µf	350Vac
30SMR350	41x61	30µf	350Vac
40SMR350	46x77	40µf	350Vac
60SMR350	52x90	60µf	350Vac

## MAINS RATED 400VAC CYLINDER TYPE

10SMR400	36x53	10µf	400Vac
20SMR400	41x61	20µf	400Vac
25SMR400	46x77	25µf	400Vac
30SMR400	46x77	30µf	400Vac
40SMR400	52x90	40µf	400Vac
60SMR400	52x90	60µf	400Vac

## MAINS RATED 450VAC CYLINDER TYPE

3.1SMR450	25x40	3.1µf	450Vac
3.2SMR450	25x40	3.2µf	450Vac
5SMR450	25x40	5.0µf	450Vac
6SMR450	30x40	6.0µf	450Vac

## MAINS RATED 500VAC CYLINDER TYPE

2SMR500	25x40	2µf	500Vac
2.5SMR500	25x40	2.5µf	500Vac

## AXIAL RT CAPACITORS

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

.47RT25	.47µf	25v
.47RT63	.47µf	63v
.47RT160	.47µf	160v
1RT63	1µf	63v
2.2RT63	2.2µf	63v
3.3RT16	3.3µf	16v
4.7RT63	4.7µf	63v
10RT63	10µf	63v
22RT63	22µf	63v
33RT25	33µf	25v
33RT63	33µf	63v
47RT16	47µf	16v
47RT25	47µf	25v
47RT63	47µf	63v
47RT160	47µf	160v
100RT16	100µf	16v
100RT25	100µf	25v
100RT63	100µf	63v
220RT25	220µf	25v
220RT63	220µf	63v
330RT25	330µf	25v
330RT63	330µf	63v
470RT16	470µf	16v
470RT25	470µf	25v
470RT63	470µf	63v
1000RT16	1000µf	16v
1000RT25	1000µf	25v
1000RT63	1000µf	63v
2200RT16	2200µf	16v
2200RT25	2200µf	25v
2200RT63	2200µf	63v
4700RT25	4700µf	25v



## "ATOM" AXIAL ELECTROLYTICS

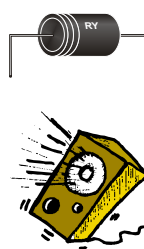
Sprague Type TVA Atom Aluminum Tubular Axial Electrolytic Capacitors. Excellent sonics For Tube Guitar Amps and audiophile home Hi-Fi. These sturdy, axial lead, aluminium electrolytic capacitors are preferred by most craftsmen for authentic vintage guitar amp and hi-fi restorations. Many of the best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

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

## AXIAL NON-POLARISED

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

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



## LOW LEAKAGE CAPS - EL

**0.4µA Max 85°C**

Developed for use where very low leakage current is essential. eg. coupling of pre-amplifiers, etc. Leakage current remains very low even after prolonged storage. (Typical caps are 10→100µA)

.47ELR63	.47µf	63v	5x11
1ELR63	1µf	63v	5x11
2.2ELR63	2.2µf	63v	5x11
3.3ELR63	3.3µf	63v	5x11
4.7ELR63	4.7µf	63v	5x11
10ELR50	10µf	50v	6x11
10ELR63	10µf	63v	8x12
22ELR35	22µf	35v	5x11
22ELR50	22µf	50v	6x11
22ELR63	22µf	63v	8x12
33ELR25	33µf	25v	5x11
33ELR35	33µf	35v	6x11
33ELR50	33µf	50v	8x12
33ELR63	33µf	63v	8x12
47ELR16	47µf	16v	5x11
47ELR25	47µf	25v	6x11
47ELR35	47µf	35v	8x12
47ELR50	47µf	50v	8x12
47ELR63	47µf	63v	10x12
100ELR10	100µf	10v	5x11
100ELR16	100µf	16v	6x11
100ELR25	100µf	25v	8x12
100ELR35	100µf	35v	8x12
100ELR50	100µf	50v	8x16
100ELR63	100µf	63v	10x16
220ELR10	220µf	10v	6x11
220ELR16	220µf	16v	8x12
220ELR25	220µf	25v	8x14
220ELR35	220µf	35v	10x16
220ELR50	220µf	50v	10x21
220ELR63	220µf	63v	13x21
330ELR10	330µf	10v	8x12
330ELR16	330µf	16v	8x12
330ELR25	330µf	25v	10x16
330ELR35	330µf	35v	10x21
330ELR50	330µf	50v	13x21
470ELR10	470µf	10v	8x12
470ELR16	470µf	16v	8x14
470ELR25	470µf	25v	10x16
470ELR35	470µf	35v	13x21
470ELR50	470µf	50v	13x26
1000ELR10	1000µf	10v	10x16
1000ELR16	1000µf	16v	10x21
1000ELR25	1000µf	25v	13x21
1000ELR35	1000µf	35v	13x26



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

## LOW LEAKAGE CAPS

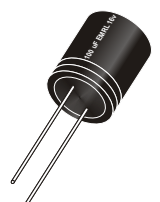
**MINIATURE**

**0.4µA Max 85°C**

A very compact version of the ELR range. As used in car audio, Camcorders, etc.

.47EMRL63	.47µf	63v	4x7
1EMRL63	1µf	63v	4x7
2.2EMRL63	2.2µf	63v	4x7
3.3EMRL63	3.3µf	63v	4x7
4.7EMRL50	4.7µf	50v	4x7
10EMRL16	10µf	16v	4x7
10EMRL25	10µf	25v	4x7
10EMRL35	10µf	35v	5x7
10EMRL50	10µf	50v	5x7
22EMRL10	22µf	10v	4x7
22EMRL16	22µf	16v	5x7
22EMRL25	22µf	25v	5x7
22EMRL35	22µf	35v	6x7
33EMRL10	33µf	10v	4x7
33EMRL16	33µf	16v	5x7
33EMRL25	33µf	25v	6x7
47EMRL10	47µf	10v	5x7
47EMRL16	47µf	16v	5x7
100EMRL10	100µf	10v	6x7
100EMRL16	100µf	16v	6x7

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



## SS-R SERIES MINIATURE ELECTROLYTIC CAPACITORS

Developed for high density electronic equipment which is now becoming very popular. eg. calculators, walkmans, micro tape recorders, car stereos, videos, etc.

Temp -40 → +85°C

Tolerance ±20% (120Hz 25°C)

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



## TK-R SERIES ELECTROLYTIC CAPACITORS 105°

Higher quality capacitors for precision applications 105° Operating temperature.



### \*LEADS:

All TKR Capacitors are the RADIAL Lead Type unless indicated as HSW which are Snap-In PCB Types, See HSW Series below (Identical to TKR but PCB mount).

### SIZES:

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

.1TKR100 .1µf 100v 5x11

.22TKR100 .22µf 100v 5x11

.33TKR63 .33µf 63v 5x11

.33TKR100 .33µf 100v 5x12

.47TKR63 .47µf 63v 5x11

.47TKR100 .47µf 100v 5x11

.47TKR250 .47µf 250v 6.3x11

.47TKR400 .47µf 400v 8x11

.68TKR63 .68µf 63v 5x11

1TKR63 1µf 63v 5x11

1TKR100 1µf 100v 5x11

1TKR160 1µF 160v 5x11

1TKR250 1µf 250v 6.3x11

1TKR350 1µf 350v 8x11

1TKR400 1µf 400v 8x11

1TKR450 1µf 450v 10x13

2.2TKR63 2.2µf 63v 5x11

2.2TKR100 2.2µf 100v 5x11

2.2TKR200 2.2µf 200v 6.3x11

2.2TKR250 2.2µf 250v 6.3x11

2.2TKR350 2.2µf 350v 8x11

2.2TKR400 2.2µf 400v 10x13

3.3TKR25 3.3µf 25v 5x11

3.3TKR63 3.3µf 63v 5x11

3.3TKR100 3.3µf 100v 5x11

3.3TKR200 3.3µf 200v 6.3x11

3.3TKR250 3.3µf 250v 8x11

3.3TKR400 3.3µf 400v 10x13

3.3TKR450 3.3µf 450v 13x21

4.7TKR63 4.7µf 63v 5x11

4.7TKR100 4.7µf 100v 5x11

4.7TKR160 4.7µf 160v 6.3x11

4.7TKR250 4.7µf 250v 8x11

4.7TKR350 4.7µf 350v 10x13

4.7TKR400 4.7µf 400v 10x16

4.7TKR450 4.7µf 450v 13x21

6.8TKR63 6.8µf 63v 5x12

6.8TKR100 6.8µf 100v 6.3x12

6.8TKR160 6.8µf 160v 10x13

6.8TKR250 6.8µf 250v 10x13

6.8TKR400 6.8µf 400v 13x22

10TKR16 10µf 16v 5x11

10TKR25 10µf 25v 5x11

10TKR63 10µf 63v 5x11

10TKR100 10µf 100v 6.3x11

10TKR160 10µf 160v 8x11

10TKR200 10µf 200v 10x13

10TKR250 10µf 250v 10x16

10TKR350 10µf 350v 10x21

10TKR400 10µf 400v 13x21

10TKR450 10µf 450v 16x25

22TKR16 22µf 16v 5x11

22TKR25 22µf 25v 5x11

22TKR35 22µf 35v 5x11

22TKR63 22µf 63v 5x11

22TKR100 22µf 100v 6.3x11

22TKR200 22µf 200v 10x21

22TKR250 22µf 250v 10x21

22TKR350 22µf 300v 13x26

22TKR400 22µf 400v 13x26

22TKR450 22µf 450v 16x32

33TKR35 33µf 35v 5x11

33TKR63 33µf 63v 6.3x11

33TKR100 33µf 100v 8x11

33TKR160 33µf 160v 10x21

33TKR200 33µf 200v 13x21

33TKR250 33µf 250v 13x21

33TKR350 33µf 350v 16x25

33TKR400 33µf 400v 16x35

33TKR450 33µf 450v 18x35

47TKR16 47µf 16v 5x11

47TKR25 47µf 25v 5x11

47TKR35 47µf 35v 5x11

47TKR63 47µf 63v 6.3x11

47TKR100 47µf 100v 10x13

47TKR160 47µf 160v 13x21

47TKR200 47µf 200v 13x21

47TKR250 47µf 250v 13x26

47TKR350 47µf 350v 16x35

47TKR400 47µf 400v 18x35

47HSW400 \*47µf 400v 22x25

47TKR450 47µf 450v 16x42

56TKR16 56µf 16v 5x11

56TKR63 56µf 63v 8x12

56HSW400 \*56µf 400v 22x25

68TKR35 68µf 35v 6.3x12

68TKR63 68µf 63v 10x13

68TKR160 68µf 160v 13x27

68TKR250 68µf 250v 16x31

68TKR400 68µf 400v 16x36

68TKR450 68µf 450v 18x42

82TKR200 82µf 200v 16x25

82TKR400 82µf 400v 22x43

100TKR16 100µf 16v 5x11

100TKR25 100µf 25v 6.3x11

100TKR35 100µf 35v 6.3x11

100TKR63 100µf 63v 10x13

100TKR100 100µf 100v 10x21

100TKR160 100µf 160v 13x26

100TKR250 100µf 250v 16x32

100TKR350 100µf 350v 18x42

100TKR400 100µf 400v 20x40

100HSW400 \*100µf 400v 25x25

100TKR450 100µf 450v 25x50

120TKR400 120µf 400v 22x46

150HSW200 \*150µf 200v 22x32

150TKR400 150µf 400v 25x47

150HSW450 \*150µf 450v 25x45

220TKR16 220µf 16v 6.3x11

220TKR25 220µf 25v 8x11

220TKR35 220µf 35v 8x11

220TKR63 220µf 63v 10x26

220TKR100 220µf 100v 13x25

220TKR160 220µf 160v 16x35

220TKR200 220µf 200v 18x42

220HSW200 \*220µf 200v 22x25

220TKR250 220µf 250v 18x43

220TKR400 220µf 400v 22x50

220HSW400 \*220µf 400v 30x35

220HSW450 \*220µf 450v 25x50

330TKR16 330µf 16v 8x11

330TKR25 330µf 25v 8x11

330TKR35 330µf 35v 10x13

330TKR63 330µf 63v 10x21

330TKR100 330µf 100v 13x26

330TKR160 330µf 160v 18x42

330TKR200 330µf 200v 18x43

330HSW200 \*330µf 200v 22x30

330TKR250 330µf 250v 22x50

330HSW400 \*330µf 400v 30x52

470TKR16 470µf 16v 8x11

470TKR25 470µf 25v 10x13

470TKR35 470µf 35v 10x16

470TKR63 470µf 63v 13x21

470TKR100 470µf 100v 16x25

470TKR160 470µf 160v 22x40

470TKR200 470µf 200v 26x42

470HSW350 \*470µf 350v 35x47

470HSW450 \*470µf 450v 35x52

560TKR25 560µf 25v 10x16

560TKR63 560µf 63v 13x26

560HSW200 \*560µf 200v 25x35

680TKR16 680µf 16v 8x11

680TKR25 680µf 25v 10x21

680TKR63 680µf 63v 16x33

680HSW200 \*680µf 200v 30x30

1000TKR16 1000µf 16v 10x16

1000TKR25 1000µf 25v 10x21

1000TKR35 1000µf 35v 13x21

1000TKR63 1000µf 63v 16x25

1000TKR100 1000µf 100v 16x42

1000HSW100 \*1000µf 100v 26x45

1200TKR35 1200µf 35v 13x25

1500TKR35 1500µf 35v 16x30

2200TKR16 2200µf 16v 13x21

2200TKR25 2200µf 25v 13x26

2200TKR35 2200µf 35v 16x25

2200TKR63 2200µf 63v 22x34

2200HSW63 \*2200µf 63v 25x30

3300TKR10 3300µf 10v 13x21

3300TKR16 3300µf 16v 16x25

3300TKR25 3300µf 25v 16x25

3300TKR35 3300µf 35v 16x35

3300HSW63 \*3300µf 63v 25x51

4700TKR16 4700µf 16v 16x25

4700TKR25 4700µf 25v 16x32

4700TKR35 4700µf 35v 18x35

4700TKR63 4700µf 63v 25x49

6800TKR16 6800µf 16v 16x32

6800TKR25 6800µf 25v 18x35

6800TKR35 6800µf 35v 22x45

6800HSW63 \*6800µf 63v 30x52

10000TKR16 10000µf 16v 18x35

10000TKR25 10000µf 25v 22x40

10000HSW25 \*10000µf 25v 25x51

10000TKR100 10000µf 100v 35x72

10000HSW100 \*10000µf 100v 35x72

15,000µF Radials  
 PCB Snap-In mounting pins.  
 15,000µf 25v  
 Size 25x45mm  
 15000HSW25

15,000µf 100v  
 Size 50x90mm  
 15000RPS100



## HSW SERIES ELECTROLYTIC CAPACITORS

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

47HSW400 47µf 400v 22x25

56HSW400 56µf 400v 22x25

100HSW400 100µf 400v 25x25

150HSW200 150µf 200v 22x32

150HSW450 150µf 450v 25x45

220HSW200 200µf 200v 22x25

220HSW400 220µf 400v 30x35

220HSW450 220µf 450v 25x50

330HSW200 330µf 200v 22x30

330HSW400 330µf 400v 30x52

470HSW350 470µf 350v 35x47

470HSW450 470µf 450v 35x52

560HSW200 560µf 200v 25x35

## 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.



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

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



220EXR10	220μf	10v	6x11
220EXR16	220μf	16v	8x11
220EXR25	220μf	25v	8x12
220EXR35	220μf	35v	10x16
220EXR50	220μf	50v	10x20
220EXR63	220μf	63v	13x22
220EXR100	220μf	100v	16x27
330EXR10	330μf	10v	8x12
330EXR16	330μf	16v	8x12
330EXR25	330μf	25v	8x14
330EXR35	330μf	35v	10x20
330EXR50	330μf	50v	10x20
330EXR63	330μf	63v	13x22
330EXR100	330μf	100v	16x26
470EXR10	470μf	10v	8x11
470EXR16	470μf	16v	10x13
470EXR25	470μf	25v	10x16
470EXR35	470μf	35v	10x20
470EXR63	470μf	63v	13x25
470EXR100	470μf	100v	18x32
680EXR10	680μf	10v	8x14
680EXR16	680μf	16v	10x16
680EXR25	680μf	25v	10x20
680EXR35	680μf	35v	13x22
680EXR50	680μf	50v	13x26
680EXR63	680μf	63v	16x27
680EXR100	680μf	100v	18x40
820EXR16	820μf	16v	10x16
1000EXR10	1000μf	10v	10x13
1000EXR16	1000μf	16v	10x20
1000EXR25	1000μf	25v	13x22
1000EXR35	1000μf	35v	13x25
1000EXR50	1000μf	50v	16x27
1000EXR63	1000μf	63v	16x32
1200EXR35	1500μf	35v	16x22
1500EXR10	1500μf	10v	10x20
1500EXR16	1500μf	16v	13x21
1500EXR25	1500μf	25v	13x26
1500EXR35	1500μf	35v	16x27
1500EXR50	1500μf	50v	16x30
1500EXR63	1500μf	63v	18x33
2200EXR10	2200μf	10v	10x20
2200EXR16	2200μf	16v	13x22
2200EXR25	2200μf	25v	16x25
2200EXR35	2200μf	35v	16x32
2200EXR50	2200μf	50v	18x36
3300EXR10	3300μf	10v	13x21
3300EXR16	3300μf	16v	16x27
3300EXR25	3300μf	25v	16x27
3300EXR35	3300μf	35v	18x36
4700EXR10	4700μf	10v	16x25
4700EXR16	4700μf	16v	16x32
4700EXR25	4700μf	25v	18x36

## 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)

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



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

## 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)

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

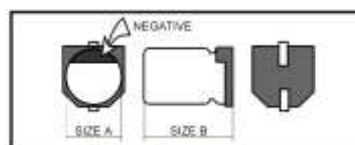
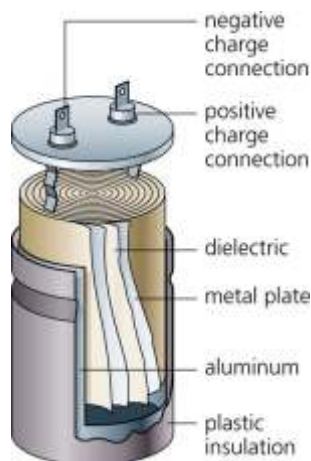
## ELNA CERAFINE ELECTROLYTIC 100V 85°C

### 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.



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



## 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



.1MXM50	0.1µF	50V	4X5
.22MXM50	0.22µF	50V	4X5
.33MXM50	0.33µF	50V	4X5
.47MXM50	0.47µF	50V	3X5

1MXM50	1µF	50V	3X5
1UWX50	1µF	50V	4x5
2.2MXM35	2.2µF	35V	3X5
2.2MXM50	2.2µF	50V	4X5
3.3MXM35	3.3µF	35V	3X5
3.3MXM50	3.3µF	50V	4X5
4.7MXM25	4.7µF	25V	3X5
4.7MXM35	4.7µF	35V	4X5
4.7MXM50	4.7µF	50V	5X5

10UWX16	10µF	16V	3X5
10MXM16	10µF	16V	4X5
10MXM25	10µF	25V	4x5
10MXM35	10µF	35V	5X5
10MXM50	10µF	50V	6.3X5
22MXM4	22µF	4V	3X5
22UWX6.3	22µF	6.3V	3X5
22MXM6.3	22µF	6.3V	4X5
22MXM16	22µF	16V	5X5
22MXM35	22µF	35V	6.3X5
22MXM50	22µF	50V	8X6
33MXM4	33µF	4V	4X5
33MXM10	33µF	10V	5X5
33MXM25	33µF	25V	6.3X5
33MXM35	33µF	35V	8X6
33MXM50	33µF	50V	8X10
47MXM4	47µF	4V	4X5
47MXM6.3	47µF	6.3V	5X5
47MXM16	47µF	16V	6.3X5
47MXM35	47µF	35V	8X6
47MXM50	47µF	50V	10X10

100MXM4	100µF	4V	5X5
100MXM6.3	100µF	6.3V	6.3X5
100MXM16	100µF	16V	8X6
100MXM25	100µF	25V	8X10
100MXM35	100µF	35V	6X8

220MXM4	220µF	4V	6.3X5
220MXM10	220µF	10V	6X8
220MXM25	220µF	25V	10X10
330MXM6.3	330µF	6.3V	8X6
470MXM6.3	470µF	6.3V	8X10
470MXM16	470µF	10V	10X10
680MXM6.3	680µF	6.3V	10X10

## ELECTROLYTIC SMD HIGH TEMP'

**SURFACE MOUNT - 105°C**  
 Similar to MXM Series Except:  
 Temperature . . . 105°C  
 Tolerance . . . . . ±20%



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



## METAL CAN CAPACITOR

LCR Brand made in UK  
 PCB Mount pins (4X).  
 PCM 401 CJ 385  
 Value 400 $\mu$ F  
 Volt 385VDC  
 Size 75x35mm $\varnothing$   
 Code 400C385



## LARGE VALUE HIFI CAPACITOR 15,000 $\mu$ F

As used in audio amplifiers etc.  
 Includes Bracket base  
 15,000 $\mu$ F 100 Volts 105°C  
 50 x 90mm $\varnothing$  plus terminals  
 Code 15000RB100



## METAL CAN DUAL CAPACITOR

LCR Brand made in UK  
 PCB Mount pins (3X).  
 FAC/SD28D  
 Value 50 $\mu$ F+50 $\mu$ F  
 Volt 250 V  
 Size 40X30mm $\varnothing$   
 Code 100C250



## GOLD CAPS

**BACKUP CAPACITORS**  
 VCRs, Tuners, etc.

**1.0F 5.5V**  
 Code GC1



**0.22F 5.5V**  
 Code GC.22

## METAL CAN DUAL CAPACITOR

LCR Brand made in UK  
 PCB Mount pins (3X).  
 FAC/SD29D  
 Value 225 $\mu$ F+25 $\mu$ F  
 Volt 385 V  
 Size 40x40mm $\varnothing$   
 Code 250C385



## 50V NON POLARISED NP ( $\mu$ F)

Suit applications in  
 TV. Audio, Speakers, etc.  $\mu$ F

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



## F&T DUAL VALUE RADIAL CAPACITOR

F&T direct replacement type caps,  
 dual value electrolytic aluminium  
 Premium quality made in Germany.  
 Value 32 $\mu$ F+32 $\mu$ F  
 Volt 500V  
 Size 52x35 $\varnothing$   
 Code FT32X32



## 100V NON POLARISED NP ( $\mu$ F)

Suit TV, Audio, etc.  $\mu$ F

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



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

## F&T DUAL VALUE RADIAL CAPACITOR

F&T direct replacement type caps,  
 dual value electrolytic aluminium  
 Premium quality made in Germany.  
 Value 50 $\mu$ F+50 $\mu$ F  
 Volt 500V  
 Size 52x35 $\varnothing$   
 Code FT50X50



## 100V NON POLARISED AXIAL STYLE ( $\mu$ F)

As used in Speaker X-Overs, etc.  $\mu$ F

1RY100	8x17
2.2RY100	8x17
3.3RY100	8x19
4.7RY100	8x19
6.8RY100	10x19
10RY100	10x19
15RY100	10x19
22RY100	10x24
33RY100	13x27



## F&T DUAL VALUE RADIAL CAPACITOR

F&T direct replacement type caps,  
 dual value electrolytic aluminium  
 Premium quality made in Germany.  
 Value 100 $\mu$ F+100 $\mu$ F  
 Volt 500V  
 Size 76x35 $\varnothing$   
 Code FT100X100



## 1 FARAD 20VDC CAR AUDIO CAPACITOR

Black in colour  
 with gold plated  
 screw terminals.  
 Includes clear  
 mounting bracket  
 1,000,000 $\mu$ F  
 Size 210x75 $\varnothing$ mm  
 Code AP806

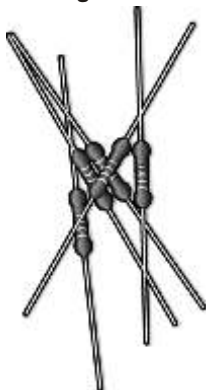


## RF CHOKES / INDUCTORS

Packaged 5 pieces per bag with header for easy identification.

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

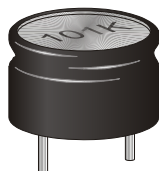
**Order One  
to Receive  
a bag of Five!**



## COMPACT 6X8mm INDUCTORS

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

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



## ENCASED 10x14mm INDUCTORS

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

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



## SOLENOID CROSSOVER INDUCTORS

### HEX-WINDING OFC AIR-CORE

Solen have developed a special Hexagon type layered winding system, "Perfect-Lay", for increasing the inductance to wire length ratio so as to reduce the DC-Resistance to a minimum. 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



Code	Value	DCR	Size	Solen#
SOL0.16	.16mH	.07 $\Omega$	14x29x57mm	S14.16
SOL0.18	.18mH	.08 $\Omega$	14x29x57mm	S14.18
SOL0.20	.20mH	.08 $\Omega$	14x29x57mm	S14.20
SOL0.22	.22mH	.09 $\Omega$	14x29x57mm	S14.22
SOL0.27	.27mH	.10 $\Omega$	14x29x57mm	S14.27
SOL0.33	.33mH	.11 $\Omega$	16x32x64mm	S14.33
SOL0.39	.39mH	.12 $\Omega$	16x32x64mm	S14.39
SOL0.47	.47mH	.13 $\Omega$	16x32x64mm	S14.47
SOL0.51	.51mH	.14 $\Omega$	16x32x64mm	S14.51
SOL0.56	.56mH	.15 $\Omega$	16x32x64mm	S14.56
SOL0.68	.68mH	.17 $\Omega$	19x38x76mm	S14.68
SOL0.82	.82mH	.19 $\Omega$	19x38x76mm	S14.82
SOL1.0	1.0mH	.21 $\Omega$	19x38x76mm	S141.0
SOL1.2	1.2mH	.24 $\Omega$	19x38x76mm	S141.2
SOL1.5	1.5mH	.28 $\Omega$	19x38x76mm	S141.5
SOL1.8	1.8mH	.30 $\Omega$	22x45x89mm	S141.8
SOL2.2	2.2mH	.33 $\Omega$	22x45x89mm	S142.2
SOL2.7	2.7mH	.39 $\Omega$	22x45x89mm	S142.7
SOL3.0	3.0mH	.42 $\Omega$	22x45x89mm	S143.0
SOL3.3	3.3mH	.45 $\Omega$	25x51x102mm	S143.3
SOL3.9	3.9mH	.49 $\Omega$	25x51x102mm	S143.9
SOL4.7	4.7mH	.56 $\Omega$	25x51x102mm	S144.7
SOL5.1	5.1mH	.59 $\Omega$	25x51x102mm	S145.1
SOL5.6	5.6mH	.63 $\Omega$	25x51x102mm	S145.6
SOL6.8	6.8mH	.71 $\Omega$	32x64x127mm	S146.8
SOL8.2	8.2mH	.79 $\Omega$	32x64x127mm	S148.2
SOL10	10mH	.87 $\Omega$	32x64x127mm	S1410

[www.wescomponents.com/capacitor/solen/S14.htm](http://www.wescomponents.com/capacitor/solen/S14.htm)

Recommended:

Maximum DCR for Series inductors for 8 $\Omega$  load is 0.6 $\Omega$  Total.  
 Maximum DCR for Parallel inductors for 8 $\Omega$  load is 1.2 $\Omega$  Total.

## INDUCTORS 1mm(18AWG) X-OVER

Premium quality AIR-CORE types.

Thick gauge for Speaker Xovers, etc.

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

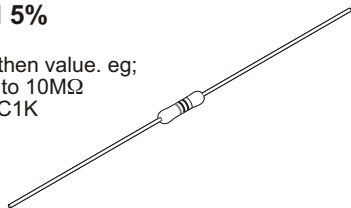


## RESISTOR PREFERRED VALUES:

0.10Ω	1.0Ω	10Ω	100Ω	1K0Ω	10KΩ	100KΩ	1M0Ω
0.12Ω	1.2Ω	12Ω	120Ω	1K2Ω	12KΩ	120KΩ	1M2Ω
0.15Ω	1.5Ω	15Ω	150Ω	1K5Ω	15KΩ	150KΩ	1M5Ω
0.18Ω	1.8Ω	18Ω	180Ω	1K8Ω	18KΩ	180KΩ	1M8Ω
0.22Ω	2.2Ω	22Ω	220Ω	2K2Ω	22KΩ	220KΩ	2M2Ω
0.27Ω	2.7Ω	27Ω	270Ω	2K7Ω	27KΩ	270KΩ	2M7Ω
0.33Ω	3.3Ω	33Ω	330Ω	3K3Ω	33KΩ	330KΩ	3M3Ω
0.39Ω	3.9Ω	39Ω	390Ω	3K9Ω	39KΩ	390KΩ	3M9Ω
0.47Ω	4.7Ω	47Ω	470Ω	4K7Ω	47KΩ	470KΩ	4M7Ω
0.56Ω	5.6Ω	56Ω	560Ω	5K6Ω	56KΩ	560KΩ	5M6Ω
0.68Ω	6.8Ω	68Ω	680Ω	6K8Ω	68KΩ	680KΩ	6M8Ω
0.82Ω	8.2Ω	82Ω	820Ω	8K2Ω	82KΩ	820KΩ	8M2Ω
Sold individually or in bags of 100 per Value							10MΩ

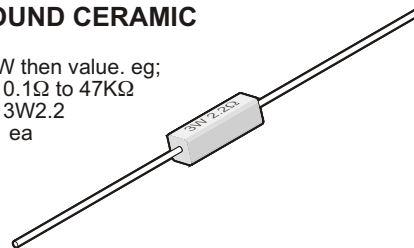
### 0.25W CARBON 5%

To order quote .25C then value. eg;  
 Values 1Ω to 10MΩ  
 Code eg. .25C1K  
 9 ea  
 Bag of 100



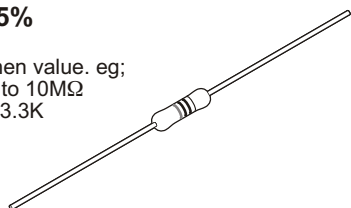
### 3W WIRE WOUND CERAMIC

To order quote 3W then value. eg;  
 Values 0.1Ω to 47KΩ  
 Code eg. 3W2.2  
 ea



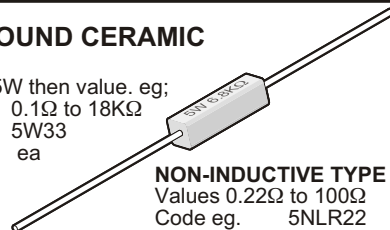
### 0.5W CARBON 5%

To order quote .5C then value. eg;  
 Values 1Ω to 10MΩ  
 Code eg. .5C3.3K  
 9 ea  
 Bag of 100



### 5W WIRE WOUND CERAMIC

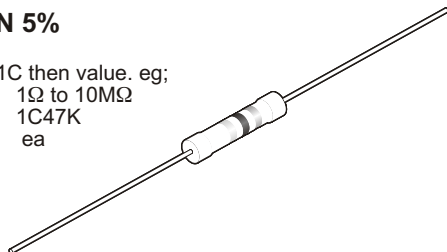
To order quote 5W then value. eg;  
 Values 0.1Ω to 18KΩ  
 Code eg. 5W33  
 ea



**NON-INDUCTIVE TYPE**  
 Values 0.22Ω to 100Ω  
 Code eg. 5NLR22

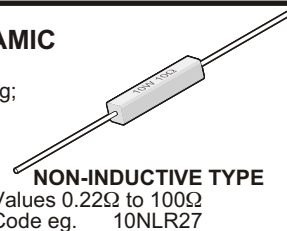
### 1W CARBON 5%

To order quote 1C then value. eg;  
 Values 1Ω to 10MΩ  
 Code eg. 1C47K  
 9 ea  
 Bag of 100



### 10W WIRE WOUND CERAMIC

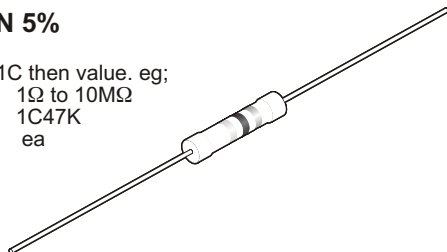
To order quote 10W then value. eg;  
 Values 0.1Ω to 3.3KΩ  
 Code eg. 10W10  
 ea  
 Values 3.9KΩ to 10KΩ  
 Code eg. 10W10K  
 ea



**NON-INDUCTIVE TYPE**  
 Values 0.22Ω to 100Ω  
 Code eg. 10NLR27

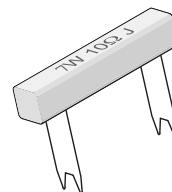
### 1W CARBON 5%

To order quote 1C then value. eg;  
 Values 1Ω to 10MΩ  
 Code eg. 1C47K  
 9 ea  
 Bag of 100



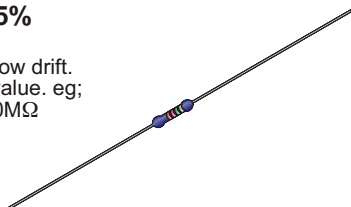
### 7W WIRE WOUND CERAMIC

Special stand-off type as used in TV.  
 To order quote 7W then value. eg;  
 Values 1Ω to 10Ω  
 Code eg. 7W4.7  
 ea



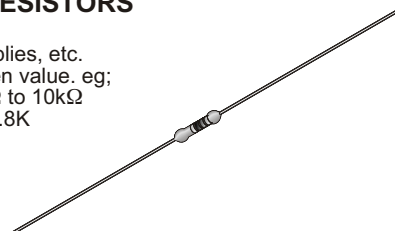
### 0.4W METAL FILM 5%

High quality, Low noise, Low drift.  
 To order quote .4M then value. eg;  
 Values 1Ω to 10MΩ  
 Code eg. .4M56  
 9 ea  
 Bag of 100



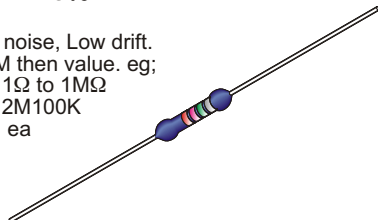
### 0.5W FUSIBLE RESISTORS

As used in power supplies, etc.  
 To order quote .5F then value. eg;  
 Values 0.1Ω to 10kΩ  
 Code eg. .5F6.8K  
 9 ea  
 Bag of 100



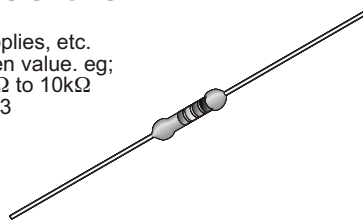
### 2W METAL FILM 5%

High quality, Low noise, Low drift.  
 To order quote 2M then value. eg;  
 Values 1Ω to 1MΩ  
 Code eg. 2M100K  
 9 ea  
 Bag of 100



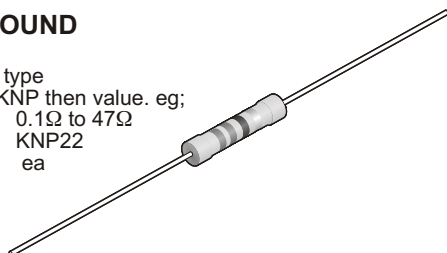
### 1W FUSIBLE RESISTORS

As used in power supplies, etc.  
 To order quote 1F then value. eg;  
 Values 0.1Ω to 10kΩ  
 Code eg. 1F33  
 9 ea  
 Bag of 100



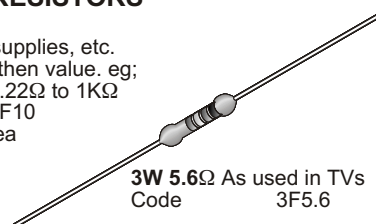
### 1W WIRE WOUND

Low inductance type  
 To order quote KNP then value. eg;  
 Values 0.1Ω to 47Ω  
 Code eg. KNP22  
 ea



### 2W FUSIBLE RESISTORS

As used in power supplies, etc.  
 To order quote 2F then value. eg;  
 Values 0.22Ω to 1KΩ  
 Code eg. 2F10  
 9 ea  
 Bag of 100



**3W 5.6Ω As used in TVs**  
 Code 3F5.6



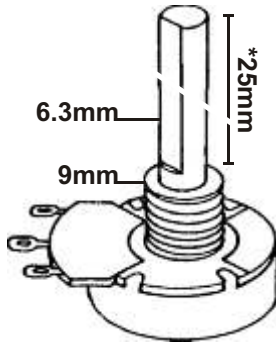
## CARBON POTENTIOMETERS 1/4"

### LINEAR

VRC1KB	LIN	1KΩ
VRC5KB	LIN	5KΩ
VRC10KB	LIN	10KΩ
VRC25KB	LIN	25KΩ
VRC50KB	LIN	50KΩ
VRC100KB	LIN	100KΩ
VRC500KB	LIN	500KΩ
VRC1MB	LIN	1MΩ

### LOGARYTHMIC

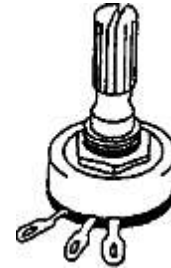
VRC1KA	LOG	1KΩ
VRC5KA	LOG	5KΩ
VRC10KA	LOG	10KΩ
VRC25KA	LOG	25KΩ
VRC50KA	LOG	50KΩ
VRC100KA	LOG	100KΩ
VRC500KA	LOG	500KΩ
VRC1MA	LOG	1MΩ



## MINIATURE POTENTIOMETER

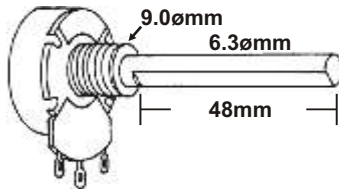
Volume control for little portable radios, etc.

Code	Value	Type
V17N-5K	5K	Norm.
V17N-50K	50K	Norm.
V17S-5K	5K	Switched
V17S-50K	50K	Switched



## 3W WIRE WOUND LINEAR 500VDC

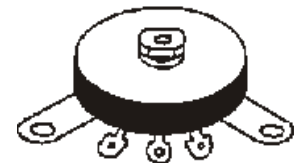
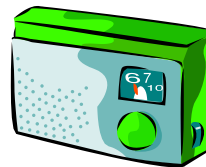
VRW10	10Ω
VRW25	25Ω
VRW50	50Ω
VRW100	100Ω
VRW500	500Ω
VRW1K	1KΩ
VRW2K	2KΩ
VRW5K	5KΩ
VRW10K	10KΩ



## MINIATURE POTENTIOMETER

Volume control for little portable radios, etc.  
 \*The switch component can easily be removed.

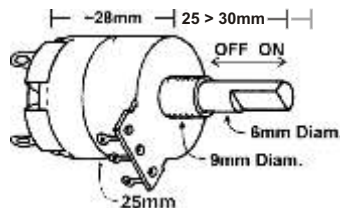
Code	Value	Type
V16N-10K	10K	Norm.
V16S-10K	10K	Switched
V16N-50K	50K	Norm. NLA
V16S-50K	50K	Switched*



## SWITCHED POTENTIOMETERS

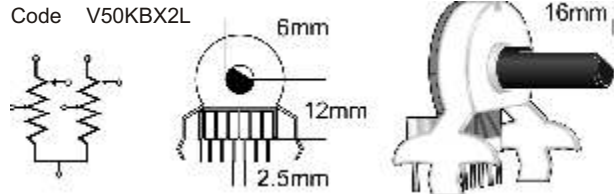
TV Volume control with Pull-Out  
 Two pole Single throw 240VAC switch.

Code	Value
VRS105	5K
VRS110	10K
VRS120	20K
VRS150	50K
VRS100	100K



## VOLUME POT WITH LOUDNESS TAP

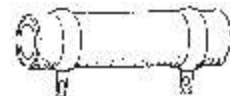
Code V50KBX2L



## HIGH POWER DUMMY LOADS

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

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



## TRIMMING POTENTIOMETERS

These miniature pots are of the highest quality and conform to the 5mm grid industry standard. Available Horizontal or Vertical.

200, 500, 1k, 2k, 5k, 10k, 20k, 50k, 100k, 200k, 500k, 1MΩ.

To order please quote Style then Value:

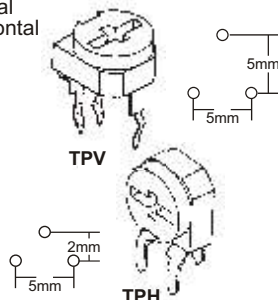
TPV+Value = TrimPot Vertical

TPH+Value = TrimPot Horizontal

Example:

Code TPV200

Code TPH1M



## NON-INDUCTIVE RESISTORS

Wire wound Ceramic. HQ.  
 0.22Ω → 100Ω in Popular Values.

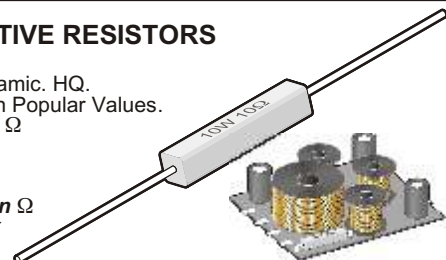
5W x = Value in Ω

Code 5NLRx

10W x = Value in Ω

Code 10NLRx

Values= .22 .33 .39 .47 .51 .56 .68 .82 1.0 1.5 1.8 2.2 2.7 3.3 4.7 6.8 8.2  
 10 12 15 18 22 27 33 39 47 56 68 82 100

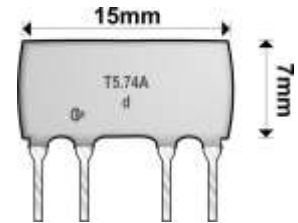


## CRYSTALS

Time Pieces and Filters

### CERAMIC FILTER AV

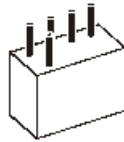
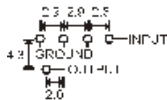
Freq. 5.74MHz  
 BW-3dB  $\pm 50$ KHz  
 BW-20dB  $\pm 350$ KHz  
 IL -9dB  
 I/O 600 $\Omega$   
 Code SFT5.74MA



### CERAMIC FILTERS

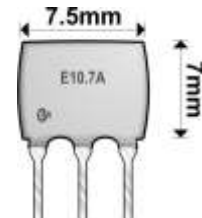
455KHz, 10KHz BW  
 Resin moulded

Code CF455



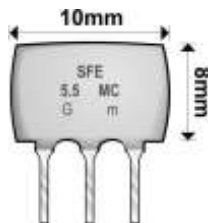
### CERAMIC FILTER FM-IF

Freq. 10.7MHz  
 BW-3dB  $\pm 280$ KHz  
 BW-20dB  $\pm 650$ KHz  
 IL -6dB  
 I/O 330 $\Omega$   
 Code SFE10.7MA5A



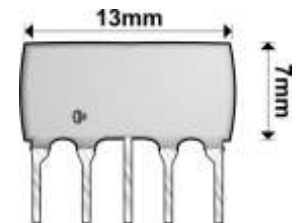
### CERAMIC FILTER AV

Freq. 5.5MHz  
 BW-3dB  $\pm 50$ KHz  
 BW-20dB  $\pm 400$ KHz  
 IL -8dB  
 I/O 600 $\Omega$   
 Code SFE5.5MC



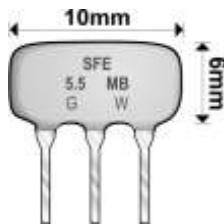
### SAW FILTER AV

For TV VIF/VCR  
 IL -25dB  
 Freq. 38.9MHz  
 Code SAF38.9MZ



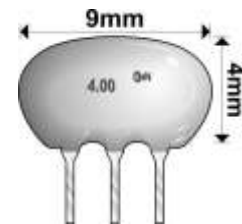
### CERAMIC FILTER AV

Low Profile  
 Freq. 5.5MHz  
 BW-3dB  $\pm 50$ KHz  
 BW-20dB  $\pm 400$ KHz  
 IL -8dB  
 I/O 600 $\Omega$   
 Code SFE5.5MBF



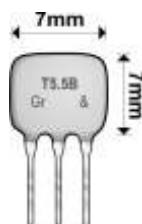
### CERAMIC RESONATOR

With built-in load capacitance.  
 Freq. 4.00MHz  
 Code CST4.00MGW



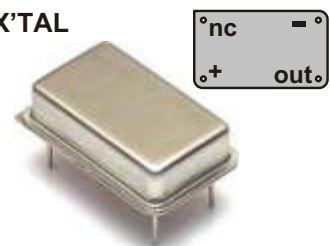
### CERAMIC FILTER AV

Notch/Band stop.  
 Suit TV & VCRs.  
 B/W 70KHz(-3dB)  
 Trap 5.5MHz  
 Code TPS5.5MB



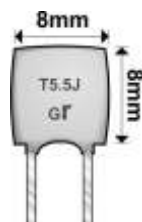
### 4.433MHZ COLOUR X'TAL

Crystal Oscillator block.  
 TTL CMOS Compatible  
 As used in PAL Colour.  
 5V. 4.433MHz.  
 21x13x5mm  
 Code QXO-1100



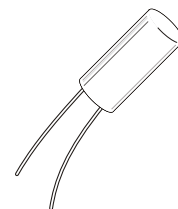
### CERAMIC TRAP AV

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



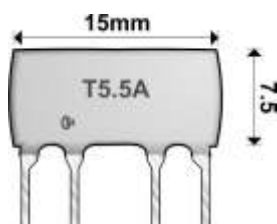
### SHARP CRYSTAL

RCRSB0090GEZZ  
 As used in SHARP  
 TV and VCRs.  
 Code CR0090



### CERAMIC FILTER

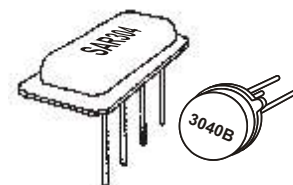
High selectivity.  
 Suit TV/VCRs.  
 Freq. 5.5MHz  
 B/W 50KHz(-3dB)  
 I/O 600 $\Omega$   
 Code SFT5.5MA



### SAW RESONATOR 304MHz

Suit UHF Remote Controls.  
 Freq. 304MHz  
 RECTANGULAR  
 Code SAR304

MINIATURE ROUND  
 Code SAR3040B



## CERAMIC RESONATORS

Code	Frequency
CSB307D	307KHz
CSB393	393KHz
CSB400	400KHz
CSB420J	420KHz
CSB429	429KHz
CSB430	430KHz
CSB440	440KHz
CSB450E	450KHz
CSB455E	455KHz
CSB480J	480KHz
CSB485	485KHz
CSB493	493KHz
CSB500	500KHz



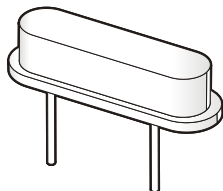
## CERAMIC RESONATORS

Code	Frequency
CSA3.52	3.52MHz
CSA3.58	3.58MHz
CSA4.00	4.00MHz
CSA6.00	6.00MHz
CSA7.20	7.20MHz
CSA10.00	10.00MHz



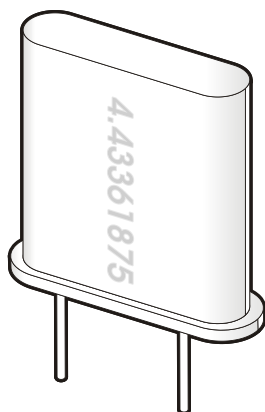
## CRYSTALS LOW PROFILE

Code
4.500000MHz
CR4.500LP
7.200000MHz
CR7.200LP
8.867238MHz
CR8.867LP



## CRYSTALS STEEL CAP

Code
2000Hz (2KHz)
CR2000
3.562MHz
CR3.562
3.579545MHz
CR3.579
4.0000MHz
CR4.000
4.4194MHz
CR4.4194
4.43361875MHz
CR4.433
4.5000MHz
CR4.500
6.0000MHz
CR6.000
7.200000MHz
CR7.200
8.000000MHz
CR8.000
8.867238MHz
CR8.867
10.0000MHz
CR10.00
18.432MHz
CR18.432
18.832MHz
CR18.832
27.000MHz
CR27.000



## FERRITE BEAD INDUCTORS

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

**SINGLE BEAD**  
Code FBI-1

**DOUBLE BEAD**  
Code FBI-2

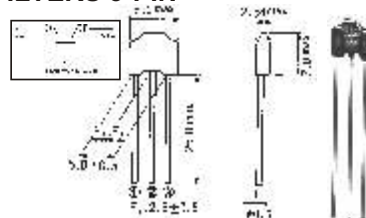


## FERRITE & CAP FILTERS 3-PIN

EMI suppression filter.  
High noise rejection.

**270pF 100V**  
Code EMIF270

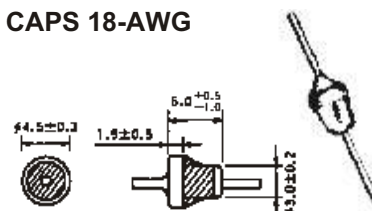
**10,000pF 100V**  
Code EMIF103



## FEED THROUGH CAPS 18-AWG

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

**SOLDER MOUNT**  
Value 1nF 50V  
Code 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.

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



## 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.

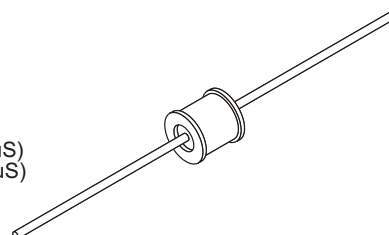
### 3 LEAD

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



### 2 LEAD

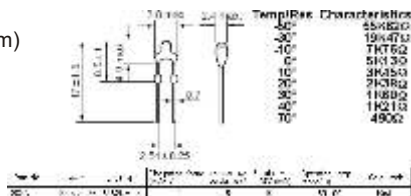
Nom.	600V
Min.	510V
Max.	950V
Break	950V(100V/uS)
down	1200V(1KV/uS)
Code	GSA260





## THERMISTOR - TEMPERATURE SENSOR

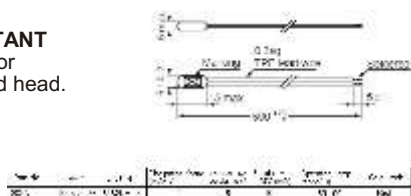
PCB Mount (2.54mm)  
 Thermal device.  
 2.0K $\Omega$  at 25°C  
 $\pm 0.3^\circ\text{C}$  Precision.  
 Code 202AT-2



[www.wescomponents.com/datasheets/](http://www.wescomponents.com/datasheets/)

## THERMISTOR - TEMPERATURE SENSOR

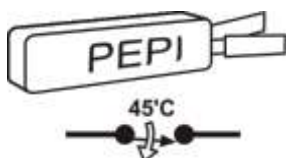
**WEATHER RESISTANT**  
 "AT" Thermal resistor  
 60cm lead. Encased head.  
 $\pm 0.3^\circ\text{C}$  Accurate.  
 2K $\Omega$  at 25°C  
 Code 202AT-1



[www.wescomponents.com/datasheets/](http://www.wescomponents.com/datasheets/)

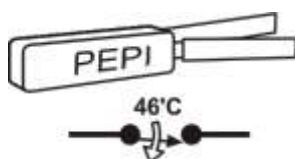
## PEPI THERMAL SWITCH - SELF RESET

Commonly used in power supplies & battery packs. With solder tags.  
 Size 20x5x7mm Self-Resets  
 Temp 45°  
 Current 6A  
 Voltage 125V  
 Code TSW45



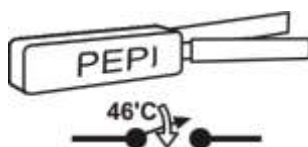
## PEPI THERMAL SWITCH - MINI N/C

Similar to TSW45 But miniature type.  
 Self resetting thermal trigger.  
 Size 15x3x5mm  
 Temp 46°  
 Current 2.6A  
 Voltage 120V  
 Code TSW46



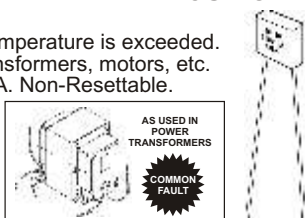
## PEPI THERMAL SWITCH - MINI N/O

**NORMALLY OPEN CONTACTS**  
 Similar to PEPI TSW46  
 But shorts out on trigger.  
 Self resets. 2.6A 125V max.  
 Triggers at 46°C  
 Size 15x3x7mm  
 Code TSW47



## 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.  
 Approx. 6.5x2.5x9mm  
 Code TF117 117°  
 Code TF125 125°  
 Code TF130 130°



## TRANSFORMER 2A THERMAL CUT-OFFS

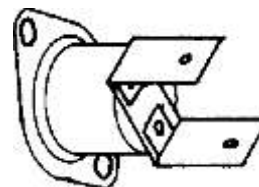
Goes open circuit if temperature is exceeded.  
 Insulated. Used in transformers, motors, etc.  
 Low DC to 240VAC 2A. Non-Resettable.  
 TF12-115 112°C  
 TF12-130 126°C  
 TF12-133 130°C  
 TF12-150 145°C  
 TF12-169 165°C



## THERMAL CUT-OFFS 10A

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

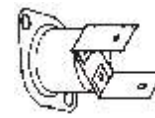
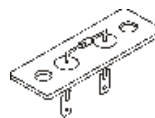
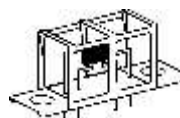
Code	Temp.
MWT70	70°C
MWT75	75°C
MWT80	80°C
MWT85	85°C
MWT95	95°C
MWT100	100°C
MWT105	105°C
MWT110	110°C
MWT115	115°C
MWT120	120°C
MWT125	125°C
MWT130	130°C
MWT135	135°C
MWT140	140°C
MWT145	145°C
MWT150	150°C
MWT155	155°C
MWT160	160°C
MWT165	165°C



## THERMAL CUT-OFFS 10A

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

Code	Temp.
MT070	70°C
MT072	72°C
MT076	76°C
MT080	80°C
MT085	85°C
MT092	92°C
MT096	96°C
MT100	100°C
MT105	105°C
MT110	110°C
MT115	115°C
MT120	120°C
MT123	123°C
MT126	126°C
MT128	128°C
MT130	130°C
MT135	135°C
MT139	139°C
MT142	142°C
MT145	145°C
MT150	150°C
MT152	152°C
MT155	155°C
MT167	167°C
MT169	169°C
MT180	180°C
MT182	182°C
MT185	185°C
MT192	192°C
MT195	195°C
MT210	210°C
MT215	215°C
MT225	225°C
MT230	230°C
MT240	240°C
MT245	245°C
MT255	255°C

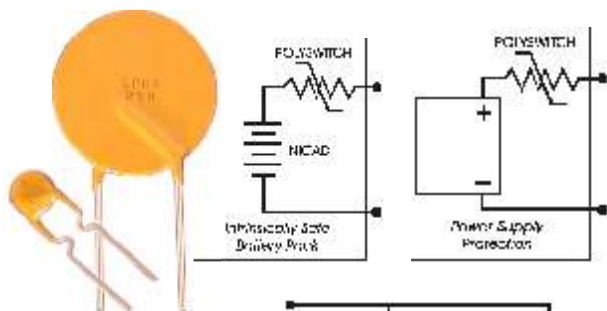


**MICROWAVE THERMAL - SEE SECTION 10**

## PTC - POLYSWITCH PROTECTORS

The PolySwitch circuit protector is a 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. There are numerous applications for this remarkable device. They 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. Unfortunately the manufacturer does not give speaker wattage suggestions! For AC use Ohms Law and a mean value for  $I_{TRIP}$  &  $I_{HOLD}$  (Remember the RMS!)

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



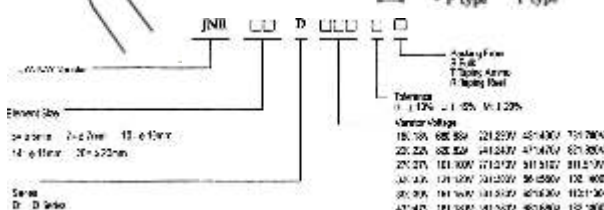
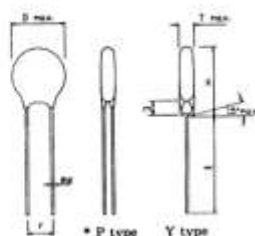
**Approximate Speaker RMS:**

$$I = \sqrt{\frac{P\sqrt{2}}{Z}}$$

**Suggestion Only**  
**Use formula at own risk**

**JYA-NAY CO., LTD.**  
METAL OXIDE VARISTORS - JNR RANGE

Code	5σ	7σ	10σ	14σ	20σ
D max,	7.5	9.0	13.5	17.0	23.0
d(±0.02)	0.6	0.6	0.8	0.8	1.0
F(±1.0)	5.0	5.0	7.5	7.5	10.0
H max,	11.0	12.0	15.5	20.5	28.0
L min,	25.0	25.0	25.0	25.0	25.0



## JNR VARISTORS from WES Components

Varistors are voltage dependent, nonlinear 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. Our JNR Series from [www.jaynay.com.tw](http://www.jaynay.com.tw) are premium quality and supercede previously available ranges.



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 JYA-NAY JNR SERIES

Zinc Oxide Voltage Dependent Resistors. Fast, Low-Leak MOVs. High Performance. Protects from Over-Voltage, Spikes, etc.

Code	Vrms	Vmax	Imax	Joules
7D101K	60	100	1200	7
7D151K	95	150	1200	11
7D220K	14	22	500	1.3
7D241K	150	240	1200	16
7D301K	195	300	1200	21
7D391K	250	390	1200	30
7D431K	275	430	1200	40
7D431K	275	430	1750	40
7D471K	300	470	1200	35
7D561K	350	560	1750	45
7D681K	420	680	1750	48
10D201K	130	200	2500	28
10D301K	195	300	2500	42
10D391K	250	390	3500	70
10D431K	275	430	3500	80
10D561K	350	560	3500	90
10D681K	420	680	3500	92
14D241K	150	240	4500	67
14D271K	175	270	4500	79
14D301K	195	300	4500	84
14D361K	230	360	6000	130
14D391K	250	390	4500	120
14D431K	275	430	4500	132
14D471K	300	470	4500	140
14D561K	350	560	5000	190
14D621K	385	620	4500	164
14D681K	420	680	4500	172
20D431K	275	430	6500	364
20D781K	485	780	6500	368
25D471K	300	470	15000	225
34D471	300	470	40000	600
34D561	350	560	40000	710

## DISCONTINUED SERIES

**DISCONTINUED SERIES**

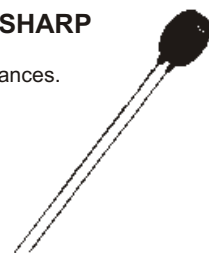
17M series	Use 14D series
12M series	Use 10D series
8M series	Use 7D series


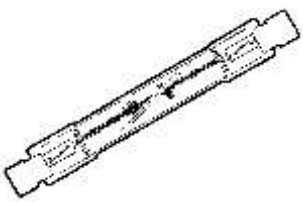
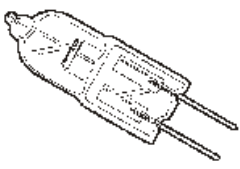
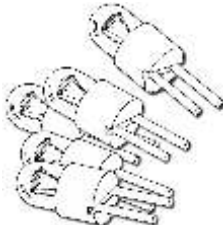
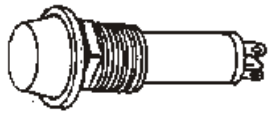

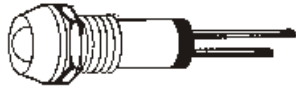

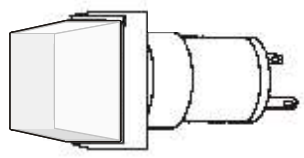




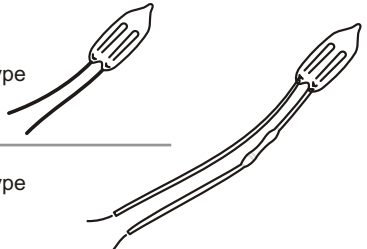
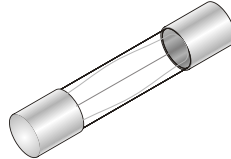


www.jyanay.com.tw

## METAL OXIDE VARISTOR SHARP

Original part as used in Sharp appliances.  
Code VX0010



<p><b>240VAC MAINS GLOBES</b></p> <p><b>OVEN GLOBES</b>  All sizes. High temp.  See Section 10...</p> <p><b>ENERGY EFFICIENT</b>  New Economical power range from Sanyo  See Section 12...</p> 	<p><b>QUARTZ HALOGEN 250V</b></p> <table> <tr> <td>150W</td><td>QHL150</td></tr> <tr> <td>300W</td><td>QHL300</td></tr> <tr> <td>500W</td><td>QHL500</td></tr> </table> 	150W	QHL150	300W	QHL300	500W	QHL500						
150W	QHL150												
300W	QHL300												
500W	QHL500												
<p><b>QUARTZ HALOGEN LAMPS</b></p> <p><b>20W 12V</b>  Code QHL20</p> <p><b>50W 12V</b>  Code QHL50</p> 	<p><b>ALARM WARNING LAMP</b></p> <p>"Bi-pin" Lamp. Stiff legs. 60mA  As used in illuminated push button switches, etc.  <b>Order One to receive Five</b></p> <table> <tr> <td>12V</td><td>BIP3125 for 5</td></tr> <tr> <td>14V</td><td>BIP3145</td></tr> </table> 	12V	BIP3125 for 5	14V	BIP3145								
12V	BIP3125 for 5												
14V	BIP3145												
<p><b>INDICATOR LAMP</b></p> <p>Hole Diam' 7mm  Volt 12  Colour Red  Code PL8R</p> <p>Colour Green  Code PL8GN</p> 	<p><b>INDICATOR LAMP REPLACEMENT</b></p> <p>5mm Diam.  12 Volt 100mA</p> <p>Code IL50-12</p> 												
<p><b>CHROME BEZEL INDICATOR LAMP</b></p> <p>LED Insert with resistor.  12V Suit 8mm diam' hole.  Colour;  RED PL6R  GREEN PL6GN  YELLOW PL6YL</p> 	<p><b>PILOT LAMP 5mm SCREW</b></p> <p>Torches, Dial Lamps, etc.  6V 652-6</p> <p>12V 652-12</p> <p>Qty' Discounts available.</p> 												
<p><b>INDICATOR LAMP</b></p> <p>Hole Diam' 15mm  Lens 18mm Sqr.  Volt 12  Colour Yellow  Code PL3</p> 	<p><b>PILOT LAMP 9mm SCREW</b></p> <p>*Torches, +Dial Lamps, etc.</p> <table> <tr> <td>Code</td><td>Volt</td></tr> <tr> <td>653-3LB</td><td>*2.2V</td></tr> <tr> <td>653-3SB</td><td>*2.2V</td></tr> <tr> <td>653-5</td><td>*5V</td></tr> <tr> <td>653-6</td><td>+6V</td></tr> <tr> <td>653-12</td><td>+12V</td></tr> </table>   <p>All Bulbs Are "LB" Long Unless Indicated "SB" Short</p>	Code	Volt	653-3LB	*2.2V	653-3SB	*2.2V	653-5	*5V	653-6	+6V	653-12	+12V
Code	Volt												
653-3LB	*2.2V												
653-3SB	*2.2V												
653-5	*5V												
653-6	+6V												
653-12	+12V												
<p><b>CHROME BEZEL INDICATOR LAMP</b></p> <p>Hole Diam' 8mm.  NEON Insert.  Volt 12  Colour Green  Code PL5GN</p> 	<p><b>PILOT LAMP 9mm BAYONET</b></p> <p>Torches, Dial Lamps, etc.  6V 654-6</p> <p>12V 654-12</p> 												
<p><b>NEON LAMP</b></p> <p>90Vac  Code NE2</p> <p>Pigtail Type</p> <p>With Buffer Resistor  240Vac  Code NE12</p> 	<p><b>FUSE LAMPS 150mA 6.35mmx32mm</b></p> <p>Same shape as a 3AG/MGC/TDL fuse.</p> <table> <tr> <td>Code</td><td>V</td></tr> <tr> <td>754-6</td><td>6v</td></tr> <tr> <td>754-8</td><td>8v</td></tr> <tr> <td>754-12</td><td>12v</td></tr> </table> <p>See fuse blocks for holders.</p> 	Code	V	754-6	6v	754-8	8v	754-12	12v				
Code	V												
754-6	6v												
754-8	8v												
754-12	12v												



## LEAD LAMPS 60mA 3mm

Supplied individually (order one to receive one).

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



## WIRE TERMINAL 60mA 5mm

Order One to receive a bag of FIVE

Code V  
 WT5125 12V



## LEAD LAMPS 60mA 4mm

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



## AXIAL LAMPS 100mA 3mm

Order One to receive a bag of FIVE

Code V  
 AXL365 6V  
 AXL395 9V  
 AXL3125 12V



## LEAD LAMPS 60mA 5mm

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



## AXIAL LAMPS 100mA 4mm

Order One to receive a bag of FIVE

Code V  
 AXL465 6V  
 AXL495 9V  
 AXL4125 12V



## WIRE TERMINAL 60mA 2.3mm

Order One to receive a bag of FIVE

Code V  
 WT265 6V  
 WT295 9V  
 WT2125 12V



## AXIAL LAMPS 100mA 5mm

Order One to receive a bag of FIVE

Code V  
 AXL565 6V  
 AXL595 9V  
 AXL5125 12V



## WIRE TERMINAL 30mA 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!

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

## SMALL WEDGE LAMPS 100mA 5mm

Order One to receive a bag of FIVE

Code V  
 WL565 6V  
 WL5125 12V



## WIRE TERMINAL 60mA 3mm

Order One to receive a bag of FIVE

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



## WEDGE LAMPS 250mA 10mm

Order One to receive a bag of FIVE

Code V  
 WL1065 6V  
 WL1085 8V  
 WL10125 12V



## WIRE TERMINAL 60mA 4mm

Order One to receive a bag of FIVE

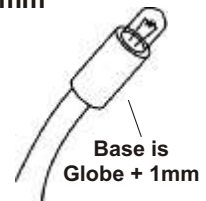
Code V  
 WT465 6V  
 WT495 9V  
 WT4125 12V  
 WT4145 14V



## BI-PIN LAMPS 60mA 4mm & 5mm

Order One to receive a bag of FIVE

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

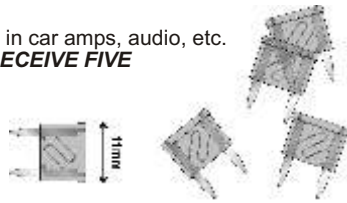


## ATS AUTOMOTIVE FUSES Mini 11mm

Miniature fuse used in car amps, audio, etc.

**ORDER ONE TO RECEIVE FIVE**

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



Card

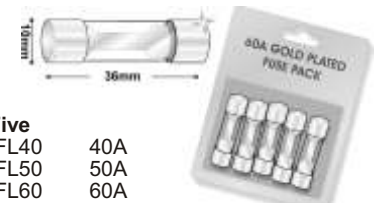
## HIGH CURRENT 5AG FUSES

Gold plated as used in high-end audio.

See Section 18 for Soundlink fuse holders.

**Order One to Receive Five**

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

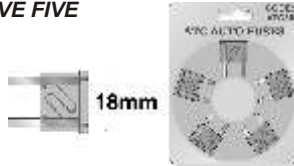


## ATC AUTO FUSE Pop. 18mm

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

**ORDER ONE TO RECEIVE FIVE**

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



Card

## CIRCUIT PROTECTOR CHIPS - F

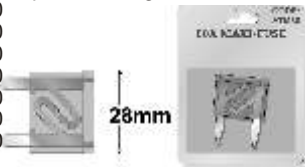
Code	Current
ICPF10	400mA
ICPF15	600 ma
ICPF20	800 ma
ICPF25	1 A
ICPF38	1.5A
ICPF50	2 A
ICPF75	2.7A



## ATM MAXI-FUSE Large 28mm

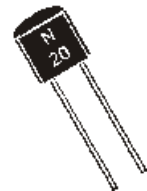
Jumbo sized and Gold plated for high currents.

Code	ATM20
	ATM30
	ATM40
	ATM50
	ATM60
	ATM70
	ATM80



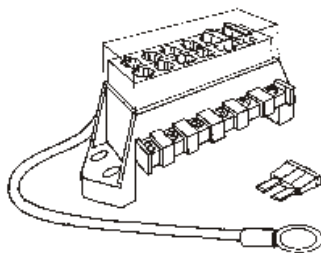
## CIRCUIT PROTECTOR CHIPS - N

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



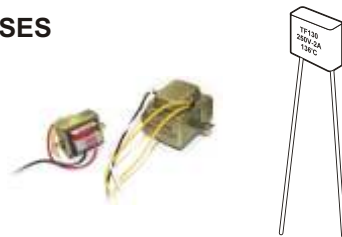
## ATC FUSE BLOCK

Designed for multiple hook-up of accessories, each with individual screw terminal outputs. Accepts up to six fuses. (Not included) See ATC Code AFB400



## 2A THERMAL FUSES

CODE	(TEMP)
TF117	(117°)
TF125	(125°)
TF130	(130°)



MORE THERMAL ON PREVIOUS PAGES

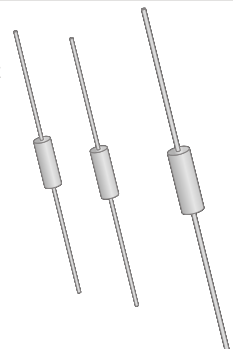
## ATC INLINE FUSE

General purpose  
 Suit ATC plug-in fuses with wiring.  
 No soldering required.  
 Fuse not included.  
 MAX 30A  
 Code JEF703



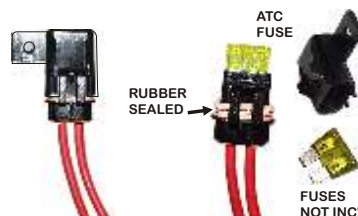
## PICOFUSES

Code . . .	Current	Code .	Current
PF.100 . . .	100mA	PF1.5 . . .	1.5A
PF.125 . . .	125mA	PF2 . . . .	2A
PF.160 . . .	160mA	PF2.5 . . .	2.5A
PF.200 . . .	200mA	PF3 . . . .	3A
PF.250 . . .	250mA	PF3.5 . . .	3.5A
PF.315 . . .	315mA	PF4 . . . .	4A
PF.375 . . .	375mA	PF5 . . . .	5A
PF.500 . . .	500mA	PF6.3 . . .	6.3A
PF.630 . . .	630mA	PF7 . . . .	7A
PF.750 . . .	750mA	PF10 . . .	10A
PF1 . . . . .	1A	PF15 . . .	15A
PF1.2 . . . .	1.2A		Cost Each



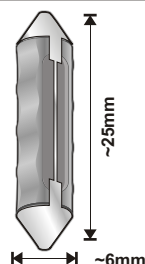
## ATC WATER RESISTANT

Heavy duty design for use in unprotected places on boats, under car bonnets, etc. Fuse not included.  
 MAX 30A  
 Code FH18



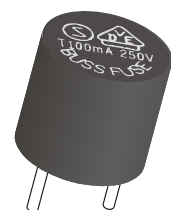
## GBC AUTO FUSE

GBC5
GBC8
GBC16
GBC20
GBC25
GBC35



## MICRO FUSES TIME LAG 8mm x 8mm

ETF100	100mA
ETF125	125mA
ETF160	160mA
ETF200	200mA
ETF250	250mA
ETF315	315mA
ETF400	400mA
ETF500	500mA
ETF630	630mA
ETF800	800mA
ETF1	1A
ETF1.25	1.25A
ETF1.6	1.6A
ETF2	2A
ETF2.5	2.5A
ETF3.15	3.15A
ETF4	4A
ETF5	5A
ETF6.3	6.3A



## FUSE HOLDERS

Chassis mount. Bakelite.  
**20x5mm CEB/TBX**  
 Code FH3



**32x6.35mm MGC/TDL**  
 Code FH2

## MGC/TDL WEATHER-PROOF

### RUBBER BOOT TYPE

Heavy duty  
 Water proof  
 Yellow rubber  
 3AG 15A Max  
 Chromium Crimp  
 Code FH306



## FUSE HOLDER

Screws open with a coin or screwdriver.  
 Chassis mount.  
 Extrudes only 2mm  
 Hi-Temp plastic.  
**20x5mm CEB/TBX**  
 Code FH31



## SCREW-DOWN FUSE HOLDER

Chassis mount  
**20x5mm CEB/TBX**  
 Code FH14

**32x6.35mm MGC/TDL**  
 Code FH16



## FUSE HOLDERS

Bayonete lid opens with a screwdriver  
 Chassis mount.  
 Bakelite. 10A.  
**32x6.35mm MGC/TDL**  
 Code FH21



## PCB MOUNT FUSE ENDS

Order one to receive ten.  
**5mm CEB/TBX**  
 Code FH9

**6.35mm MGC/TDL**  
 Code FH10



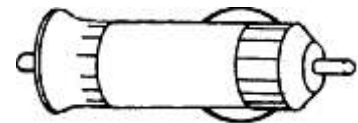
## MGC/TDL FUSE HOLDER

Chassis mount  
 Suit 32 x 6.35mm fuse  
 Clip off face.  
 Code FH12



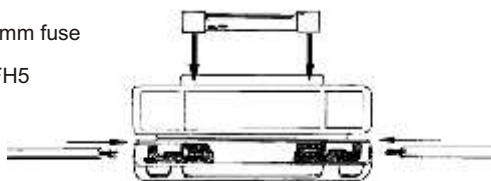
## MGC/TDL FUSE HOLDER

Inside cigarette lighter plug  
 Suit 32 x 6.35mm fuse  
 Code P810



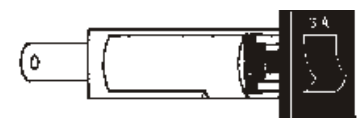
## MGC/TDL FUSE HOLDER

In-line kit  
 Suit 32 x 6.35mm fuse  
 Clear plastic  
 Code FH5



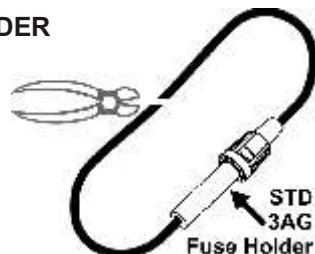
## PANEL MOUNT BREAKERS

Thermal. Resettable.  
 240VAC or Low DCV  
 PCB2 2A  
 PCB3 3A  
 PCB5 5A  
 PCB10 10A  
 PCB15 15A



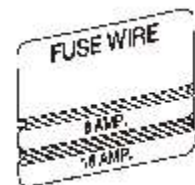
## MGC/TDL FUSE HOLDER

In-line with lead.  
 Suit 32 x 6.35mm fuse  
 Popular bayonet type  
 Ready made with wire  
 No soldering required.  
 Code FH4



## FUSE WIRE

Domestic fuse box type.  
 8 & 16A fuse wire  
 wrapped on a card.  
 Code FW816



SEE SECTION 12 FOR ELECTRICAL

## MGC/TDL HEAVY DUTY

Wired with 12 gauge  
 Suit 32 x 6.35mm fuse  
 Screw barrel. High temperature plastic.  
 No soldering required.  
 Code FH8



## SOUNDLINK GOLD SERIES

### AUTOMOTIVE FUSES

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

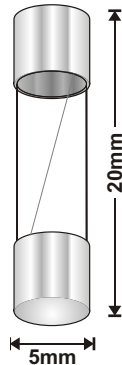




## CEB GLASS FUSE

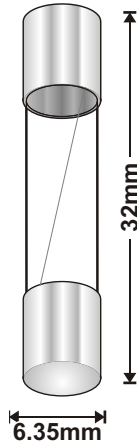
CEB.050  
CEB.100  
CEB.125  
CEB.150  
CEB.160  
CEB.200  
CEB.250  
CEB.315  
CEB.400  
CEB.500  
CEB.600  
CEB.630  
CEB.750  
CEB.800  
CEB1  
CEB1.25  
CEB1.5  
CEB1.6  
CEB2  
CEB2.5  
CEB3  
CEB3.15  
CEB3.5  
CEB4  
CEB5  
CEB6.3  
CEB6.5  
CEB7  
CEB7.5  
CEB8  
CEB10  
CEB12  
CEB15  
CEB20

*All Values  
Are In Amps*



## MGC GLASS FUSE

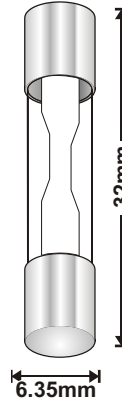
MGC.050  
MGC.100  
MGC.125  
MGC.150  
MGC.160  
MGC.200  
MGC.250  
MGC.315  
MGC.350  
MGC.500  
MGC.600  
MGC.630  
MGC.750  
MGC.800  
MGC1  
MGC1.25  
MGC1.5  
MGC1.6  
MGC2  
MGC2.5  
MGC3  
MGC3.15  
MGC3.5  
MGC4  
MGC5  
MGC6.3  
MGC6.5  
MGC7  
MGC7.5  
MGC8  
MGC10  
MGC12  
MGC15  
MGC20  
MGC25  
MGC30



## AGF 32V FAST

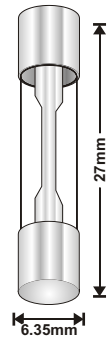
Similar to MGC  
but optimized for  
low volt auto, etc.

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



## SFE GLASS FUSE

SFE1  
SFE1.5  
SFE2  
SFE3  
SFE6  
SFE7.5  
SFE9  
SFE14  
SFE20

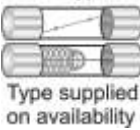


## TBX SLOW BLOW

TBX.050  
TBX.100  
TBX.125  
TBX.150  
TBX.160  
TBX.200  
TBX.250  
TBX.315  
TBX.400  
TBX.500  
TBX.630  
TBX.750  
TBX.800  
TBX1  
TBX1.25  
TBX1.5  
TBX1.6  
TBX2  
TBX2.5  
TBX3  
TBX3.15  
TBX3.5  
TBX4  
TBX5  
TBX6  
TBX6.3  
TBX6.5  
TBX7  
TBX8  
TBX10  
TBX15



Two Types:



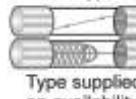
Type supplied  
on availability

## TDL SLOW BLOW

TDL.050  
TDL.100  
TDL.125  
TDL.150  
TDL.160  
TDL.200  
TDL.250  
TDL.315  
TDL.350  
TDL.375  
TDL.500  
TDL.600  
TDL.630  
TDL.700  
TDL.750  
TDL.800  
TDL1  
TDL1.25  
TDL1.5  
TDL1.6  
TDL2  
TDL2.5  
TDL3  
TDL3.15  
TDL3.5  
TDL4  
TDL5  
TDL6.25  
TDL7  
TDL7.5  
TDL8  
TDL10  
TDL15  
TDL20



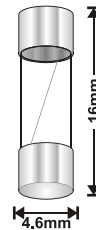
Two Types:



Type supplied  
on availability

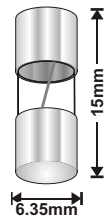
## SGB GLASS FUSE

SGB.125  
SGB.315  
SGB1  
SGB1.6  
SGB2  
SGB2.5  
SGB3  
SGB5  
SGB7.5  
SGB8  
SGB15  
SGB20



## AGA GLASS FUSE

AGA1  
AGA1.5  
AGA2  
AGA2.5  
AGA5  
AGA6  
AGA7.5  
AGA10  
AGA15  
AGA20  
AGA25  
AGA30



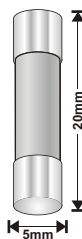
## FUSE PULLER

Suit most of the  
fuses found on  
this page.  
Code FRT3



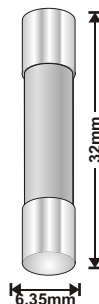
## ABD CERAMIC

ABD.500  
ABD.750  
ABD1  
ABD2  
ABD3  
ABD4  
ABD5  
ABD6  
ABD7  
ABD8  
ABD10



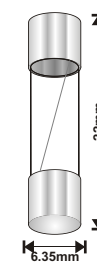
## ABC CERAMIC

ABC.750  
ABC1  
ABC2  
ABC3  
ABC4  
ABC5  
ABC6  
ABC7  
ABC8  
ABC10  
ABC15  
ABC20



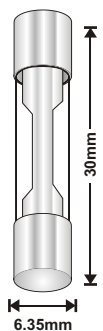
## AGW GLASS FUSE

AGW1  
AGW1.5  
AGW3  
AGW5  
AGW7.5  
AGW10  
AGW15  
AGW20  
AGW25



## BOS GLASS FUSE

BOS3  
BOS5  
BOS10  
BOS15  
BOS20  
BOS25  
BOS30  
BOS35



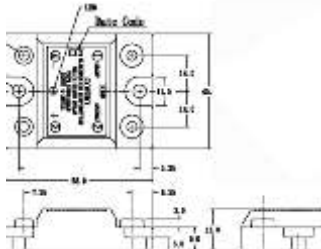
## SOLID STATE RELAY 40A

in 4→32Vdc/12→5mA  
 iso 10GΩ/4000Vac

Vout 250Vrms AC  
 lout 10Arms AC  
 Code KSD210AC8



Vout 250Vrms AC  
 lout 40Arms AC  
 Code KSD240AC8

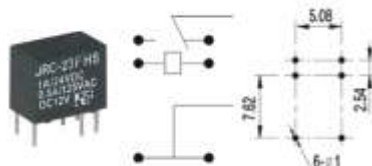


Vout 480Vrms AC  
 lout 40Arms AC  
 Code KSD440AC8

[www.wescomponents.com/DataSheets/KSD440AC8.pdf](http://www.wescomponents.com/DataSheets/KSD440AC8.pdf) etc.

## RELAY PCB 12VDC SP-DT

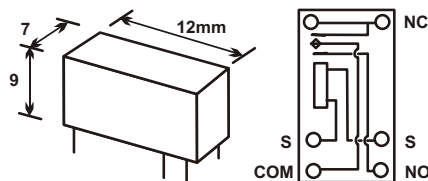
Coil 12Vdc  
 0.15W  
 SW 24Vdc 1A  
 125Vac 1/2A  
 Size 12.5x7.5x10  
 Pins 6x  
 Code JRC23F



## 5V MINIATURE RELAYS

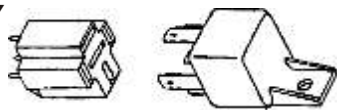
As used in  
 telephones etc.

Code SY-5



## AUTOMOTIVE RELAY

12V 30A Tag mount  
 SPDT TW3415

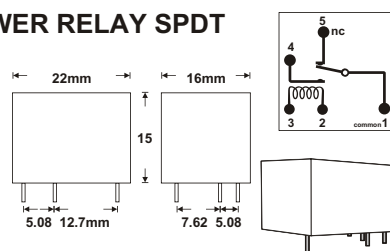


+ HOLDERS TO SUIT:  
**SOLDER TERMINALS**  
 Code TW3417  
**80cm WIRING HARNESS**  
 Code TW3416



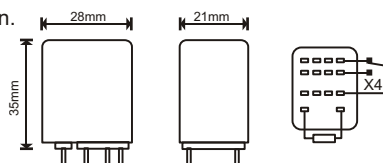
## MINIATURE POWER RELAY SPDT

Gold-overlay  
 Silver-alloy  
 Coil 12Vdc/25mA  
 Contact 120W/960VA  
 Amax 5A  
 Vmax 250Vac  
 Code LZ12HK



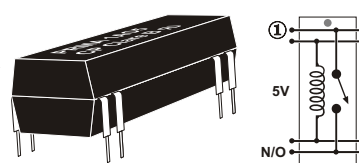
## 4PDT HIGH QUALITY RELAY

Heavy duty construction.  
 Reliable. PCB mount.  
 Silver Contacts.  
 12V Coil.160 Ohm.  
 4PDT 5A  
 Code FRL264



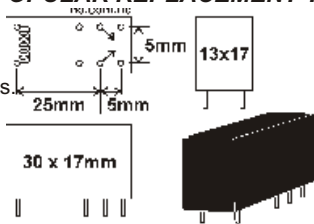
## REED DIP RELAY - SPST

Can be driven directly  
 by CMOS, TTL, etc.  
 Vmax 100VDC/ACpeak  
 Imax 1/2A<sub>switch</sub> 1A<sub>carry</sub>  
**5Vdc 500Ω**  
 Code RL1A05  
**12Vdc 1KΩ**  
 Code RL1A12



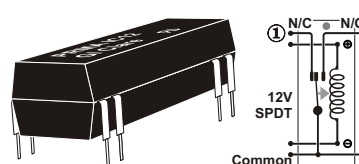
## POWER RELAY - POPULAR REPLACEMENT TYPE

Sealed, low profile.  
 Std DIN pinouts.  
 5A/10A 240VAC contacts.  
**12VDC 270Ω**  
 DPDT FTR212  
 SPDT FTR112  
**24VDC 1K1Ω**  
 DPDT FTR224  
 SPDT FTR124



## REED DIP RELAYS - SPDT

Can be driven directly  
 by TTL, etc.  
 Vmax 100VDC/ACpeak  
 Imax 1/4A<sub>switch</sub> 1/2A<sub>carry</sub>  
**5Vdc 500Ω**  
 Code RL1C05  
**12Vdc 1KΩ**  
 Code RL1C12

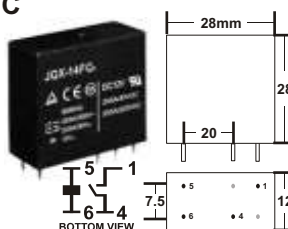


## POWER RELAY JQX-14FC

Compact PCB Mount  
 10A 30Vdc/240Vac

**12VDC 530mW**  
 SPST JQX14F12

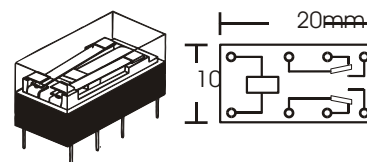
**48VDC 530mW**  
 SPST JQX14F48



## MINIATURE PCB DIL RELAYS

Suit VCR's etc.

G2VN-6 6V  
 G2VN-9 9V  
 G2VN-12 12V  
 G2VN-24 24V

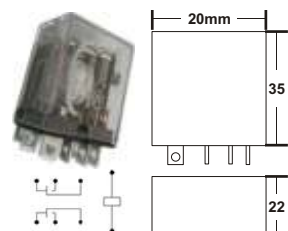


## POWER RELAY JQX-13F

Tag mount DPDT  
 10A 28VDC/277VAC

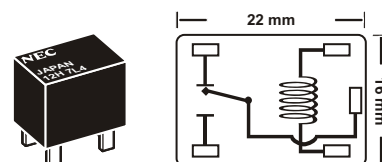
Coil Code  
**12V JQX13F12**  
**24V JQX13F24**

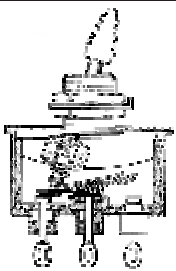

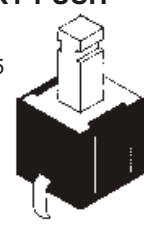
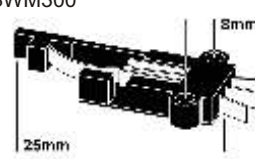
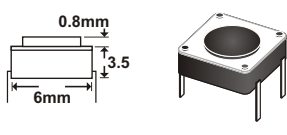
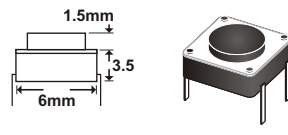
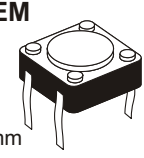
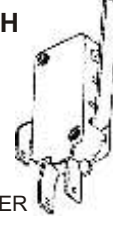
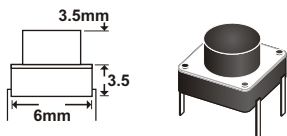
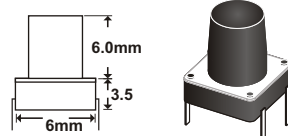
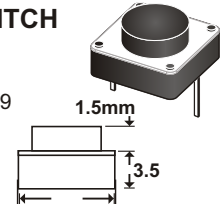

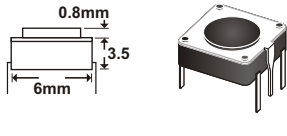
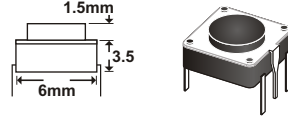
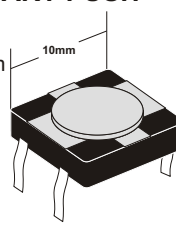
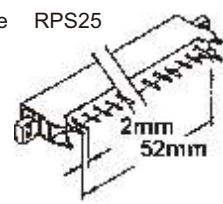
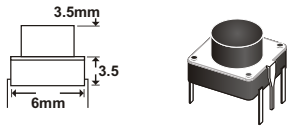
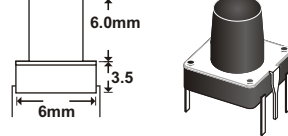
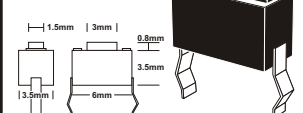
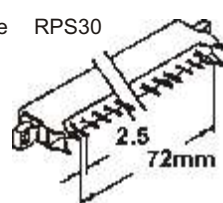
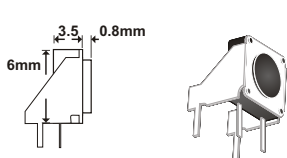
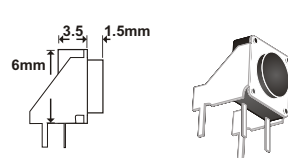

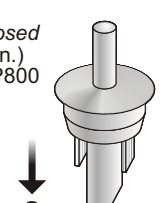
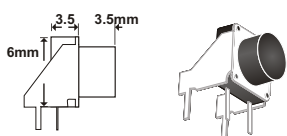
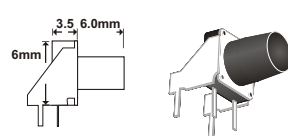

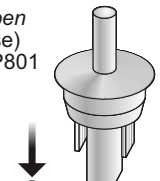
**240Vac Coil**  
**240V JQX13F240**






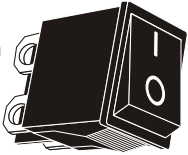



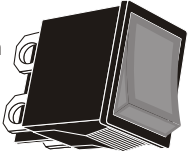







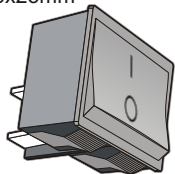






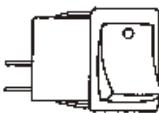
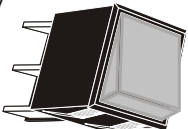


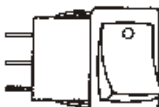
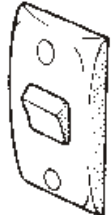
## NEC RELAYS

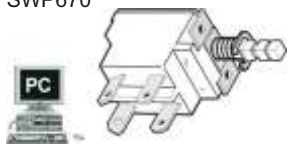
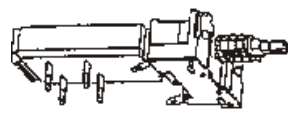
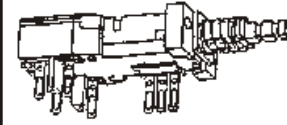
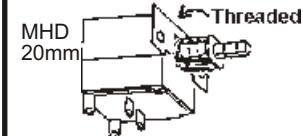
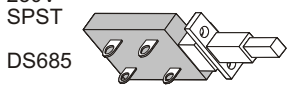
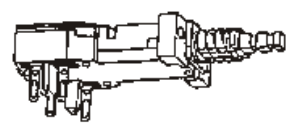

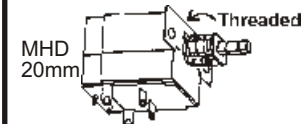
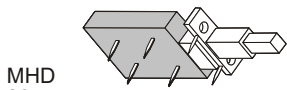
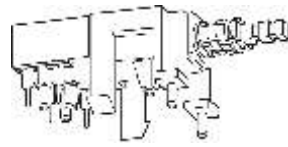


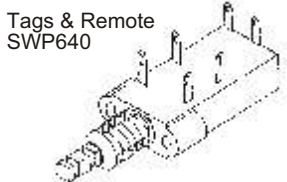
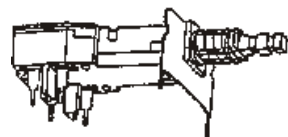
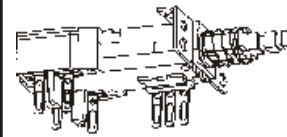
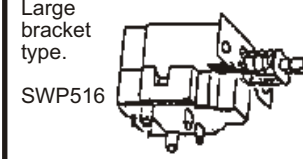
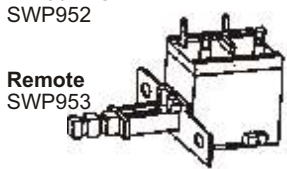
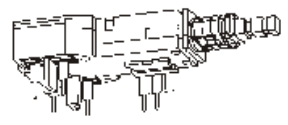
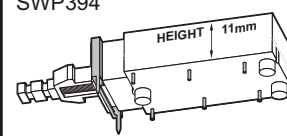

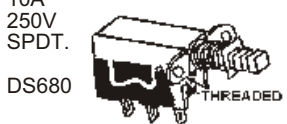
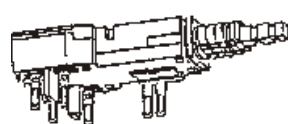
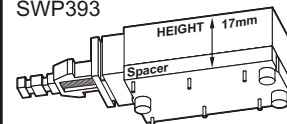


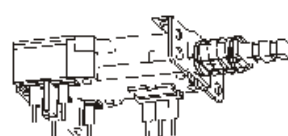

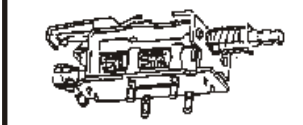
SPDT PCB type.  
 10A(240VAC/30VDC)  
 MR301-12 12V  
 MR301-24 24V

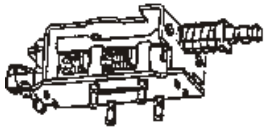

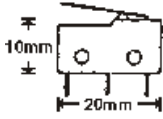
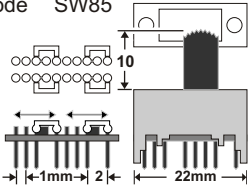
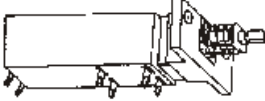
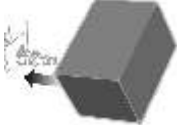
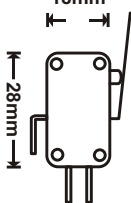
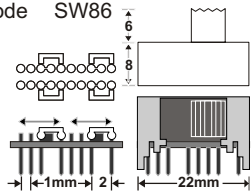


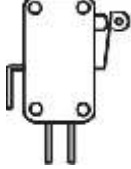
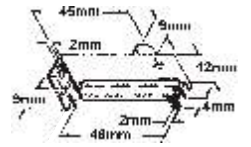
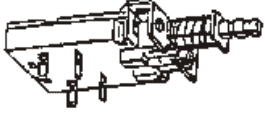

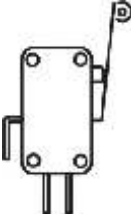





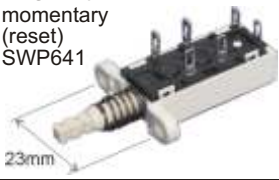
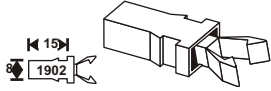


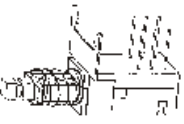





	<p><b>LEVER SWITCH 7x4mm</b></p> <p>Sony 1-762-621-21 Code SW2121</p> 	<p><b>MOMENTARY PUSH</b></p> <p>Sony TV etc. 2 Pin SW155</p> 	<p><b>MICRO SWITCH SPDT</b></p> <p>Momentary Double throw SWM300</p> 
<p><b>MICRO SWITCH 0.8mm</b></p> <p>Code SW172</p> 	<p><b>MICRO SWITCH 1.5mm</b></p> <p>Code SW173</p> 	<p><b>MOMENTARY PUSH SWITCH OEM</b></p> <p>Samsung Akai etc.</p> <p>Base 3.5x6x6mm Knob Code 0.5mm SW250 1.5mm SW9367</p> 	<p><b>MICROSWITCH</b></p> <p>BEST RANGE SEE 10-7</p> <p>MICROWAVE DOOR SWITCH</p> <p>SUIT MOST OTHER APPLICATIONS.</p> 
<p><b>MICRO SWITCH 3.5mm</b></p> <p>Code SW174</p> 	<p><b>MICRO SWITCH 6mm</b></p> <p>Code SW175</p> 	<p><b>MOMENTARY PUSH SWITCH</b></p> <p>2 pin SW79</p> 	<p><b>18 PIN REC/PLAY</b></p> <p>Code RPS20</p> 
<p><b>MICRO SWITCH 0.8mm</b></p> <p>Ground pin Code SW176</p> 	<p><b>MICRO SWITCH 1.5mm</b></p> <p>Ground pin Code SW177</p> 	<p><b>MOMENTARY PUSH SWITCH</b></p> <p>4x10x10mm SW260</p> <p>Soft Rubber. Keyboards</p> 	<p><b>27 PIN REC/PLAY</b></p> <p>Code RPS25</p> 
<p><b>MICRO SWITCH 3.5mm</b></p> <p>Ground pin Code SW178</p> 	<p><b>MICRO SWITCH 6mm</b></p> <p>Ground pin Code SW179</p> 	<p><b>MICRO SWITCH 0.8mm</b></p> <p>Suit car radios and home audio. Code SW520</p> 	<p><b>30 PIN REC/PLAY</b></p> <p>Code RPS30</p> 
<p><b>MICRO SWITCH 0.8mm</b></p> <p>Code SW180</p> 	<p><b>MICRO SWITCH 1.5mm</b></p> <p>Code SW181</p> 	<p><b>MICRO SWITCH 1.5mm</b></p> <p>Suit Philips and Sony audio. Code SW511</p> 	<p><b>TAMPER SWITCH NC</b></p> <p>NC Norm Closed (Push to open.) Code SWP800</p> 
<p><b>MICRO SWITCH 3.5mm</b></p> <p>Code SW182</p> 	<p><b>MICRO SWITCH 6mm</b></p> <p>Code SW183</p> 	<p><b>MOMENTARY PUSH RIGHT ANGLE 1.5mm</b></p> <p>Suit TV, VCR, CD, etc.. SW95</p> <p>Short</p> 	<p><b>TAMPER SWITCH NO</b></p> <p>NO Norm Open (Push to close) Code SWP801</p> 



<b>MOMENTARY</b>  <b>NORMALLY OPEN</b> SWM201  <b>NORMALLY CLOSED</b> SWM202  	<b>SUBMINIATURE</b>  1.5A 250V SPDT Code SWT102  	<b>Centre off</b>  6A 250V DPDT Code SWT134  	<b>DPST ROCKER SWITCH</b>  Snap fit 20x13mm 4A-240V SW200  
<b>PUSH BUTTON</b>  <b>MOMENTARY NORM OPEN</b> SWM203  <b>PUSH ON PUSH OFF</b> SWP305  	<b>SUBMINIATURE</b>  1.5A 250V DPDT Code SWT106  	<b>Standard</b>  1.5A 250V SPST Code SWT121  	<b>DPST ILLUMINATED</b>  Green 240VAC 20x13mm 4A-240V SW205  
<b>PUSH BUTTON</b>  <b>MOMENTARY NORM OPEN</b> SWM205  <b>PUSH ON PUSH OFF</b> SWP308  	<b>MINIATURE</b>  3A 250V SPDT Code SWT112  	<b>Standard</b>  1.5A 250V DPST Code SWT123  	<b>DPST ROCKER</b>  Snap fit 20x22mm 5A-240V SW202  
<b>Lamp switch</b>  <b>SPST</b> Code SWP312  <b>DPST</b> Code SWP313  	<b>MINIATURE</b>  Centre off 3A 250V SPDT Code SWT113  	<b>Standard</b>  1.5A 250V DPDT Code SWT125  	<b>COMPUTER POWER</b>  Snap fit 25x25mm 10A-240V SW203  
<b>MOMENTARY</b>  3A 125VAC 6mm Panel mount. DPDT <b>Red</b> MS300R <b>Black</b> MS300B  	<b>MINIATURE</b>  3A 250V DPDT Code SWT117  	<b>Heavy duty</b>  Centre off 3A 250V DPDT Code SWT127  	<b>DPDT ROCKER</b>  Snap fit 30x22mm 10A-240V SW220  
<b>Foot switch</b>  Heavy Duty 6A 250V DPDT Push on, push off Code SWP328  	<b>MINIATURE</b>  Centre off 3A 250V DPDT Code SWT118  	<b>SPST ROCKER SWITCH</b>  Snap fit 20x13mm 6A-240V SW210  	<b>DPDT ILLUMINATED</b>  RED fit 30x22mm 10A-240V SW225  
<b>Kick Switch</b>  Extra HD 3 Pole 2 Throw Suit I/O Guitar Peddles SW3PDT  	<b>TOGGLE SWITCH</b>  6A 250V DPDT Code SWT132  	<b>SPDT ROCKER SWITCH</b>  Snap fit 20x13mm 6A-240V SW215  	<b>MAINS POWER</b>  SEE SECTION TWELVE  

<b>20MM THREADED</b> AT-PC Computer SWP670 	<b>23MM BRACKET</b> Code SWP618 	<b>18MM PLASTIC</b> Code SWP650 	<b>SONY/JVC TYPE</b> SWP655 MHD 20mm 
<b>20MM THREADED</b> 4A 250V SPST DS685 	<b>18MM PLASTIC</b> Code SWP580 	<b>PCB MOUNT</b> Code SWP583 	<b>SONY/JVC TYPE</b> With remote. SWP515 MHD 20mm 
<b>20MM PCB TYPE</b> Same as DS685 but PCB mount. Sony etc. DS686 MHD 20mm 	<b>BRACKET PCB</b> Code SWP582 	<b>PCB MOUNT</b> Code SWP532 	<b>26MM SONY SWITCH</b> Large bracket type. SWP656 
<b>19MM THREADED</b> Tags & Remote SWP640 	<b>PCB MOUNT</b> Code SWP581 	<b>23MM BRACKET</b> Code SWP589 	<b>26MM SONY SWITCH</b> With remote. Large bracket type. SWP516 
<b>20MM KOREA TV</b> 4A250VAC SWP952 Remote SWP953 	<b>NO BRACKET PCB</b> Code SWP586 	<b>AKAI UNIVERSAL</b> Std Low Profile As below but 11mm SWP394 	<b>22.5MM PHILIPS TYPE</b> 4822-276-14024 SWP4024 
<b>20MM UNIVERSAL</b> 10A 250V SPDT. DS680 	<b>NO BRACKET</b> Code SWP575 	<b>AKAI UNIVERSAL</b> With height extension 17mm. SWP393 	<b>LG TV POWER</b> PCB Mount DPST SWP4026 
<b>23MM UNIVERSAL</b> DPST with momentary (reset) SWP641 	<b>20MM THREADED</b> Code SWP585 	<b>GRUNDIG TV</b> With remote function. Code SWP514 	<b>18MM PHILIPS TYPE</b> With remote. SWP528 

<b>18MM PHILIPS TYPE</b> SWP658 	<b>KNOBS</b> KNB681 10x10x10mm 	<b>MICRO SWITCH 20mm</b> 5A 250V Code SWM400 	<b>4P3T SLIDE SWITCH</b> Code SW85 
<b>23MM PHILIPS TYPE</b> With remote. SWP622 	<b>KNOBS</b> KNB682 15x10x10mm 	<b>MICRO SWITCH 28mm</b> 10A 250V 25mm Lever SPDT SWM420 	<b>4P3T SLIDE SWITCH</b> Code SW86 
<b>20MM PHILIPS</b> 482227613816 PCB Mount SWP3816 	<b>KNOBS</b> KNB683 ROUND 10x10mm 	<b>MICRO SWITCH 28mm</b> 3A 250V Roller Lever SPDT SWM424 	<b>8P4T SLIDE SWITCH</b> 8 Pole 4 Position 40 Pin Code SW90 
<b>20MM THREADED</b> PCB & TAGS (Sony/Sharp) SWP625 	<b>KEY LOCK Physical</b> 90° Turns 25mm arm 19mm hole AKL101 	<b>MICRO SWITCH 28mm</b> 3A 250V Roller Lever SPDT SWM425 	<b>ILLUMINATED TOGGLE</b> 12V 20A DPST Snap Fit 37x21mm Very HQ Push SW SW-VAD1 
<b>20MM THREADED</b> AT-PC Computer SWP670 	<b>KEY LOCK SP3T</b> 3 Position 24VDC 4A 240VAC 2A 19mm Hole AKS8071 	<b>MICROWAVE SWITCHES</b> For our extensive range of Micro switches See Microwave Section Ten 	<b>ILLUMINATED TOGGLE</b> Momentary 12V 20A DPST Snap Fit 37x21mm Very HQ SW-VBD1 
<b>23MM THREADED</b> DPST with momentary (reset) SWP641 	<b>DOOR CATCHER SMALL</b> Push close, Push open Code DL1902 	<b>VOLUME SWITCH</b> Volume Control with switch, See 3-1 and 2-16 	<b>ILLUMINATED TOGGLE</b> Center Off 12V 20A DPDT Snap Fit 37x21mm Very HQ SW-VJD1 
<b>MINI DC SWITCH</b> TE5BW etc. PCB mount. 2A 12VDC SWP150 	<b>SECTION 12</b> 		<b>ILLUMINATED TOGGLE</b> Momentary Center Off 12V 20A DPDT Snap Fit 37x21mm SW-VLD1 



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