



F-DYNE

southern electronics

F-Dyne/Southern Electronics is proud of its line of Audio Type Capacitors for the High End Audio Manufacturing community. Technically advanced, F-Dyne/Southern Electronics Audio Type Capacitors provide superior sound quality over standard designs - they're fast and clearer. Solid copper wire leads, tin foil and high purity solder can be specified for optimum conductivity. All external material, tape, outer wrap and epoxy seals are fire retardant.

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| Audio Polypropylene Round Film/Foil | Best Sound Around Hear the Difference | | | | | | | |
|---|--|-------|--------|-------|--------|-------|--------|-------|
| | PP11-AUDIO-Polypropylene Foil | | | | | | | |
| | 100VDC | | 200VDC | | 400VDC | | 600VDC | |
| CAPACITANCE | D | L | D | L | D | L | D | L |
| 33 PF | .187 | .375 | .187 | .375 | .187 | .375 | .187 | .500 |
| 10 PF | .187 | .375 | .187 | .375 | .187 | .375 | .187 | .500 |
| 470 PF | .187 | .375 | .187 | .375 | .187 | .375 | .187 | .500 |
| .001 UF | .187 | .375 | .187 | .375 | .203 | .375 | .203 | .500 |
| .0047 UF | .187 | .375 | .187 | .500 | .203 | .500 | .234 | .625 |
| .01 UF | .234 | .375 | .203 | .500 | .218 | .625 | .281 | .750 |
| .047 UF | .250 | .625 | .296 | .750 | .390 | .750 | .500 | .875 |
| .1 UF | .328 | .375 | .375 | .875 | .484 | .875 | .578 | 1.187 |
| .47 UF | .500 | .750 | .656 | 1.187 | .750 | 1.437 | .968 | 1.687 |
| 1.00 UF | .671 | 1.187 | .734 | 1.687 | 1.000 | 1.687 | 1.158 | 2.00 |
| 4.00 UF | .968 | 2.437 | | | | | | |

Audio
Polypropylene
Metallized
Round

Best Sound Around

| CAPACITANCE | 100VDC | | 200VDC | | 300VDC | | 400VDC | | 600VDC | |
|-------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| | D L | | D L | | D L | | D L | | D L | |
| | D | L | D | L | D | L | D | L | D | L |
| .01 UF | .187 | .375 | .187 | .375 | .187 | .500 | .187 | .500 | .234 | .687 |
| .047 UF | .203 | .375 | .234 | .500 | .250 | .625 | .281 | .625 | .375 | .812 |
| .1 UF | .203 | .500 | .265 | .625 | .281 | .750 | .328 | .750 | .421 | 1.125 |
| .47 UF | .296 | .750 | .406 | .675 | .437 | 1.187 | .531 | 1.187 | .687 | 1.75 |
| 1.0 UF | .375 | .875 | .531 | 1.187 | .531 | 1.437 | .687 | 1.437 | .875 | 2.00 |
| 5.0 UF | .625 | 1.437 | .843 | 1.75 | 1.031 | 2.25 | 1.140 | 2.25 | | |
| 10.0 UF | .718 | 2.00 | 1.0109 | 2.00 | | | | | | |
| 25.0 UF | 1.002 | 2.25 | 1.375 | 2.50 | | | | | | |

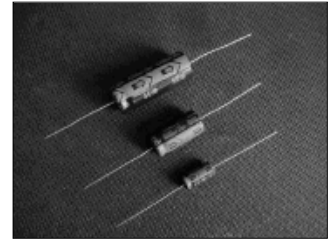
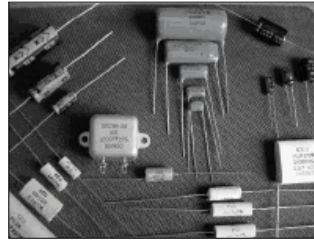
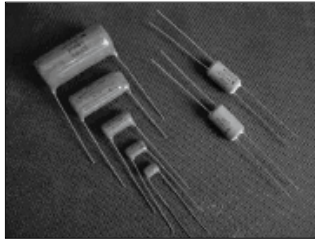
F-DYNE Electronics Corp. Southern Electronics
726 South Flower Street - Burbank, CA 91502
Phone (818) 845-2458 - Fax (818) 845-6348

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CAPACITOR INDEX



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Polystyrene Foil

Wrap & Fill - Axial Lead

Polystyrene provides the highest quality capacitor with regard to electrical characteristics. Excellent capacitance stability and negative TC make polystyrene capacitors ideal for critical circuits. Size is approximately 3 times that of Mylar. Temperature is limited to 85 C.

| ROUND | PS12 | | PS11 | | PS11 | | PS11 | | PS11 | | PS11 | | PS11 | |
|-------------|--------|-------|--------|-------|---------|-------|---------|-------|---------|-------|---------|-------|----------|-------|
| | 50 VDC | | 75 VDC | | 100 VDC | | 200 VDC | | 400 VDC | | 600 VDC | | 1000 VDC | |
| CAPACITANCE | D | L | D | L | D | L | D | L | D | L | D | L | D | L |
| .0001 | .156 | .375 | .187 | .375 | .187 | .375 | .187 | .375 | .187 | .375 | .187 | .500 | | |
| .010 | .171 | .500 | .187 | .500 | .219 | .500 | .234 | .625 | .281 | .750 | .343 | .750 | .484 | 1.250 |
| .047 | .244 | .625 | .296 | .625 | .296 | .750 | .359 | .875 | .453 | 1.187 | .562 | 1.437 | .781 | 1.750 |
| .10 | .298 | .750 | .328 | .875 | .375 | .875 | .468 | 1.062 | .578 | 1.312 | .687 | 1.687 | 1.031 | 2.00 |
| .47 | .500 | 1.187 | .562 | 1.312 | .687 | 1.312 | .750 | 1.562 | .968 | 1.687 | 1.062 | 3.00 | | |
| 1.00 | .609 | 1.437 | .718 | 1.562 | .875 | 1.562 | 1.00 | 2.00 | 1.156 | 2.5 | 1.500 | 3.25 | | |
| 5.00 | | | | | 1.500 | 2.500 | 1.75 | 3.25 | | | | | | |

Also available in flat version and epoxy case radial and axial cases. Special Audio Capacitors are also available.

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Metalized Polycarbonate

Wrap & Fill - Axial Lead

| ROUND | MPC13 | | MPC12 | | MPC11 | | MPC11 | | MPC11 | | MPC11 | | MPC11 | |
|-------------|--------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
| | 50 VDC | | 100 VDC | | 150 VDC | | 200 VDC | | 300 VDC | | 400 VDC | | 600 VDC | |
| CAPACITANCE | D | L | D | L | D | L | D | L | D | L | D | L | D | L |
| .010 | .156 | .375 | .156 | .375 | .187 | .375 | .187 | .375 | .187 | .500 | .187 | .500 | .218 | .687 |
| .047 | .156 | .375 | .156 | .375 | .203 | .437 | .203 | .500 | .250 | .625 | .312 | .625 | .343 | .937 |
| .10 | .171 | .375 | .187 | .437 | .234 | .500 | .265 | .500 | .359 | .625 | .375 | .750 | .437 | 1.062 |
| .47 | .234 | .437 | .312 | .625 | .390 | .625 | .359 | .875 | .453 | 1.187 | .546 | 1.312 | .765 | 1.500 |
| 1.00 | .312 | .500 | .375 | .750 | .437 | .875 | .437 | 1.187 | .562 | 1.687 | .687 | 1.750 | | |
| 5.00 | .469 | .750 | .562 | 1.312 | .718 | 1.562 | .781 | 1.562 | .875 | 2.250 | 1.281 | 2.25 | | |
| 20.00 | .765 | 1.062 | .859 | 1.687 | 1.093 | 2.250 | 1.312 | 2.250 | 1.687 | 2.250 | | | | |
| 50.00 | .921 | 1.562 | 1.25 | 2.250 | 1.750 | 2.250 | | | | | | | | |

Rectangular Epoxy Case Radial Leaded

± 0.01 Tol on all dimensions

L S AWG
 42 .30 22
 .55 .40 22
 .67 .50 22
 .82 .60 22
 1.04 .50 22
 1.24 1.10 20
 1.75 1.60 20
 1.95 1.80 18

| | MPC 53 | | | MPC 51 | | | MPC 51 | | | MPC 51 | | | MPC 51 | | |
|-------------|--------|------|------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|
| | 50 VDC | | | 100 VDC | | | 200 VDC | | | 400 VDC | | | 600 VDC | | |
| CAPACITANCE | T | H | L | T | H | L | T | H | L | T | H | L | T | H | L |
| .01 | .160 | .330 | .420 | .160 | .330 | .420 | .160 | .330 | .420 | .180 | .330 | .550 | .250 | .380 | .550 |
| .047 | .160 | .330 | .420 | .180 | .330 | .420 | .250 | .380 | .550 | .300 | .440 | .720 | .400 | .560 | .820 |
| .10 | .180 | .330 | .420 | .180 | .330 | .550 | .300 | .440 | .550 | .400 | .560 | 2.04 | .400 | .560 | 2.24 |
| .22 | .170 | .330 | .550 | .250 | .370 | .440 | .300 | .440 | .820 | .570 | .740 | 1.25 | .57 | .740 | 1.24 |
| .47 | .250 | .380 | .550 | .300 | .440 | .820 | .400 | .560 | 1.04 | .570 | .740 | 1.75 | .57 | .740 | 1.75 |
| 1.0 | .300 | .400 | .670 | .400 | .550 | .820 | .570 | .740 | 1.24 | | | | | | |

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 726 South Flower Street - Burbank, CA 91502
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CPP Polypropylene Foil

Polypropylene foil - Wrap & Fill on *Surface Mount Carrier*

Polypropylene capacitors are slightly larger in size than Mylar but are comparable in price and have superior electrical characteristics. They may be used in place of polystyrene in many applications where a negative TC is desirable. Temperature rating is to 105°C.

VOLTAGE: 35V, 63V, 100V, 200V, 400V, 600V, 1,000V

TOLERANCE: .5%, 1%, 2%, 2.5%, 5%

OPERATING TEMPERATURE: -55°C to +105°C

LOW D.F. - LOW ESR - LOW TEMP. T.C.

POLYPROPYLENE FOIL

| Capacitance | Voltage Range | TYPE | SIZE |
|---|---------------|------|------|
| .000033 TO .015 UF | 35-100 Volts | CPPA | A |
| .018 TO .039 UF | 35-100 Volts | CPPB | B |
| .047 TO .22 UF | 35-100 Volts | CPPC | C |
| Consult Factory for other Values and Voltages | | | |

FOOT PRINT

| | W | H | L |
|---|------|------|------|
| A | .150 | .210 | .475 |
| B | .150 | .210 | .600 |
| C | .200 | .275 | .825 |

Note: Also available with rectangular epoxy case leads.
Metalized Polypropylene are also available in surface mount.

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Polycarbonate Foil

Wrap & Fill - Axial Lead

Polycarbonate capacitors also have superior electrical characteristics with excellent capacitance stability over a wide temperature range. Size is approximately 12% larger than Mylar types. Temperature rating to 125 C.

| ROUND | PC 12 | | PC 11 | | PC 11 | | PC 11 | | PC 11 | | PC 11 | |
|-------------|-----------|------|---------|-------|---------|-------|---------|-------|---------|-------|----------|-------|
| | 50-80 VDC | | 100 VDC | | 200 VDC | | 400 VDC | | 600 VDC | | 1000 VDC | |
| CAPACITANCE | D | L | D | L | D | L | D | L | D | L | D | L |
| .0010 | .187 | .375 | .187 | .375 | .187 | .375 | .187 | .375 | .187 | .625 | .234 | .812 |
| .010 | .187 | .375 | .187 | .375 | .203 | .500 | .28 | 1.750 | .343 | .750 | .453 | 1.187 |
| .047 | .250 | .500 | .234 | .625 | .296 | .750 | .453 | 1.187 | .562 | 1.437 | .718 | 1.687 |
| .10 | .312 | .500 | .281 | .750 | .343 | 1.062 | .578 | 1.312 | .687 | 1.687 | .937 | 1.937 |
| .47 | | | .484 | 1.312 | .625 | 1.312 | .750 | 1.937 | 1.250 | 2.00 | 1.656 | 2.75 |
| 1.00 | | | .578 | 1.437 | | | | | | | | |

Also available in Rectangular Case Radial Leaded

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Metallized Polyphenylene Sulphide

Wrap & Fill - Axial Lead

| ROUND | MPC13 | | MPC12 | | MPC11 | | MPC11 | | MPC11 | | MPC11 | | MPC11 | |
|-------------|--------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
| | 50 VDC | | 100 VDC | | 150 VDC | | 200 VDC | | 300 VDC | | 400 VDC | | 600 VDC | |
| CAPACITANCE | D | L | D | L | D | L | D | L | D | L | D | L | D | L |
| .010 | .156 | .375 | .156 | .375 | .187 | .375 | .187 | .375 | .187 | .500 | .187 | .500 | .218 | .687 |
| .047 | .156 | .375 | .156 | .375 | .203 | .437 | .203 | .500 | .250 | .625 | .312 | .625 | .343 | .937 |
| .10 | .171 | .375 | .187 | .437 | .234 | .500 | .265 | .500 | .359 | .625 | .375 | .750 | .437 | 1.062 |
| .47 | .234 | .437 | .312 | .625 | .390 | .625 | .359 | .875 | .453 | 1.187 | .546 | 1.312 | .765 | 1.500 |
| 1.00 | .312 | .500 | .375 | .750 | .437 | .875 | .437 | 1.187 | .562 | 1.687 | .687 | 1.750 | | |
| 5.00 | .469 | .750 | .562 | 1.312 | .718 | 1.562 | .781 | 1.562 | .875 | 2.250 | 1.281 | 2.25 | | |
| 20.00 | .765 | 1.062 | .859 | 1.687 | 1.093 | 2.250 | 1.312 | 2.250 | 1.687 | 2.250 | | | | |
| 50.00 | .921 | 1.562 | 1.25 | 2.250 | 1.750 | 2.250 | | | | | | | | |

Rectangular Epoxy Case Radial Leaded

+/-0.01 Tol on all dimensions

| L | S | AWG |
|------|------|-----|
| .42 | .30 | 22 |
| .55 | .40 | 22 |
| .67 | .50 | 22 |
| .82 | .60 | 22 |
| 1.04 | .50 | 22 |
| 1.24 | 1.10 | 20 |
| 1.75 | 1.60 | 20 |
| 1.95 | 1.80 | 18 |

| | MPC 53 | | | MPC 51 | | | MPC 51 | | | MPC 51 | | | MPC 51 | | |
|-------------|--------|------|------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|
| | 50 VDC | | | 100 VDC | | | 200 VDC | | | 400 VDC | | | 600 VDC | | |
| CAPACITANCE | T | H | L | T | H | L | T | H | L | T | H | L | T | H | L |
| .01 | .160 | .330 | .420 | .160 | .330 | .420 | .160 | .330 | .420 | .180 | .330 | .550 | .250 | .380 | .550 |
| .047 | .160 | .33 | .420 | .180 | .330 | .420 | .250 | .380 | .550 | .300 | .440 | .720 | .400 | .560 | .820 |
| .10 | .180 | .33 | .420 | .180 | .330 | .550 | .300 | .440 | .550 | .400 | .560 | 2.04 | .400 | .560 | 2.24 |
| .22 | .170 | .33 | .550 | .250 | .370 | .440 | .300 | .440 | .820 | .570 | .740 | 1.25 | .57 | .740 | 1.24 |
| .47 | .250 | .38 | .550 | .300 | .440 | .820 | .400 | .560 | 1.04 | .570 | .740 | 1.75 | .57 | .740 | 1.75 |
| 1.0 | .300 | .40 | .670 | .400 | .550 | .820 | .570 | .740 | 1.24 | | | | | | |

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POLYESTER PED 2 FOIL - METALLIZED MPED POLYESTER

Epoxy Dip Coat Flat - Radial Lead

Dip coat - Conformality coated radial lead capacitors are ideally suited for many printed circuit applications. Radial leads may be formed for different spacings. The epoxy coating provides excellent physical protection and is fire resistant.

| PED 2 | | | | | | | | | | | | |
|-------------|---------|------|-------|---------|------|-------|---------|-------|-------|---------|------|-------|
| | 100 VDC | | | 200 VDC | | | 400 VDC | | | 600 VDC | | |
| | T | H | L | T | H | L | T | H | L | T | H | L |
| CAPACITANCE | .250 | .350 | .700 | .250 | .550 | .800 | .250 | .550 | .800 | .250 | .550 | .800 |
| .001 | .250 | .350 | .700 | .250 | .580 | .800 | .250 | .580 | .800 | .310 | .640 | .800 |
| .01 | .300 | .420 | .700 | .280 | .610 | .800 | .410 | .650 | .800 | .390 | .750 | 1.250 |
| .047 | .400 | .550 | .700 | .370 | .710 | .800 | .410 | .740 | 1.250 | .560 | .910 | 1.250 |
| .1 | .600 | .860 | .800 | .500 | .830 | 1.250 | .840 | 1.140 | 1.250 | | | |
| .47 | .720 | .980 | 1.250 | | | | | | | | | |
| 1.0 | | | | | | | | | | | | |
| MPED 2 | | | | | | | | | | | | |
| | 100 VDC | | | 250 VDC | | | 400 VDC | | | 600 VDC | | |
| | T | H | L | T | H | L | T | H | L | T | H | L |
| .01 | | | | .189 | .354 | .492 | .189 | .354 | .492 | .189 | .354 | .492 |
| .10 | .189 | .354 | .492 | .236 | .433 | .492 | .276 | .472 | .689 | .295 | .492 | .886 |
| .47 | .256 | .453 | .689 | .295 | .492 | .886 | .374 | .571 | 1.180 | .472 | .787 | 1.180 |
| 1.00 | .276 | .472 | .886 | .374 | .571 | 1.180 | .472 | .787 | 1.180 | | | |
| 2.0 | .335 | .532 | 1.180 | .492 | .807 | 1.180 | | | | | | |

If your requirements are smaller try our E5 Type LS 5mm.

Custom sizes are available. AC Capacitors are also available in Epoxy Dipped products. Consult Factory

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Metallized Polypropylene

| ROUND | MPP 11 | | | | | | | | | |
|-------------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
| | 150 VDC | | 200 VDC | | 300 VDC | | 400 VDC | | 600 VDC | |
| CAPACITANCE | D | L | D | L | D | L | D | L | D | L |
| .01 | .187 | .375 | .187 | .375 | .187 | .500 | .187 | .500 | .234 | .687 |
| .10 | .250 | .500 | .265 | .625 | .281 | .750 | .328 | .750 | .421 | 1.125 |
| .33 | .312 | .750 | .390 | .750 | .500 | .875 | .484 | 1.062 | .609 | 1.50 |
| 1.0 | .421 | 1.062 | .531 | 1.187 | .531 | 1.437 | .687 | 1.437 | .875 | 2.00 |
| 5.0 | .671 | 1.75 | .843 | 1.75 | 1.031 | 2.25 | 1.140 | 2.25 | | |
| 10.0 | .859 | 2.00 | 1.109 | 2.00 | | | | | | |

Also available in flat version and metal case with glass end seals. Also available with low ESR and RMS.

Rectangular Epoxy Cased Radial Leaded

| RADIAL CASE | MPP 51 | | | | | | | | | | | |
|----------------|------------|-------|------|---------|------|------|---------|------|------|---------|------|------|
| | 50-100 VDC | | | 200 VDC | | | 400 VDC | | | 600 VDC | | |
| CAPACITANCE | T | H | L | T | H | L | T | H | L | | | |
| .01 | .160 | .330 | .420 | .160 | .330 | .420 | .180 | .330 | .550 | .400 | .560 | 1.04 |
| .047 | .180 | .330 | .420 | .240 | .380 | .550 | .300 | .440 | .670 | .400 | .560 | 1.24 |
| .10 | .180 | .330 | .550 | .330 | .440 | .550 | .400 | .560 | 1.04 | .570 | .740 | 1.75 |
| .22 | .250 | .440 | .550 | .300 | .440 | .820 | .400 | .560 | 1.24 | .750 | 1.00 | 1.95 |
| .47 | .300 | .440 | .820 | .400 | .560 | 1.04 | .570 | .740 | 1.24 | | | |
| 1.00 | .40 | 0.560 | 1.04 | .450 | .740 | 1.24 | .750 | 1.00 | 1.95 | | | |
| 5.00 | .570 | .740 | 1.75 | .750 | 1.00 | 1.95 | | | | | | |
| | | | | | | | | | | | | |

Also available in Radial Epoxy Cases Polypropylene Foil - Polystyrene Foil

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