



This metallized polycarbonate capacitor series exhibits superior electrical characteristics over an extremely wide temperature range. Miniature size, high Q, excellent IR and capacitance stability make them ideally suited to filter network and other low-loss high frequency applications.

A wide variety of sizes and configurations is available. Axial-lead wrap-and fill, in oval and round shapes; rectangular epoxy case, with axial and radial leads; and radial-lead epoxy dip units.

All capacitors feature extended foil construction, and standard tin-coated copper-clad steel leads; nickel, copper, dumet and other special leads available.

SPECIFICATIONS

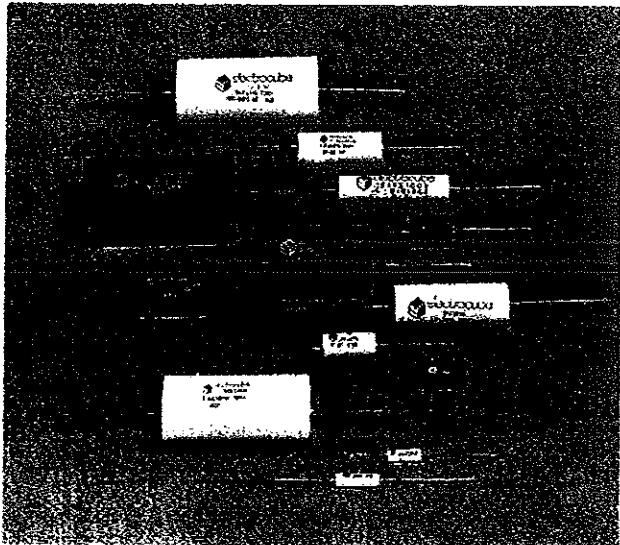
Temperature: -55°C to +125°C.

Dielectric Strength: Will withstand 200% rated voltage at 25°C, for a period not to exceed 1 minute; current limited to 5 ma.

Life Test: Will withstand 140% rated voltage for 250 hrs. at +125°C, with not more than 1 failure in 12 permitted.

Dissipation Factor: Shall not exceed 0.3% at 25°C.

Acceptance Criteria: Measurement frequency for capacitance and dissipation



factor shall be 1000 Hz for values to 1 mfd; 60 Hz for values over 1 mfd.

Insulation Resistance: At rated voltage or 500V, whichever is less, units shall meet the minimum values below:

| TEMP. (°C) | MEG X MFDS | | MEG (NEED NOT EXCEED) | |
|---------------|---------------|-------------|--------------------------|-------------|
| | 50- 100V | 200V -up | 50- 100V | 200V -up |
| 25 | 25,000 | 50,000 | 50,000 | 100,000 |
| 85 | 2,500 | 5,000 | 5,000 | 10,000 |
| 125 | 50 | 100 | 100 | 200 |

The following capacitor series are not recommended for new design. For technical data or alternate design and application information, consult factory.

625C 627A 636A
625D 630A

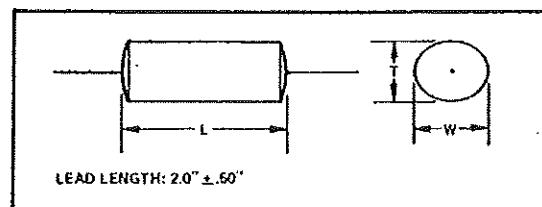
NOTES

For information regarding insulating sleeves, mountings, special terminals, non-standard leads, circuit connections and other hardware, consult factory.

For styles and ratings not shown, or for unusual requirements necessitated by special circuit applications (including higher IR or lower DF), consult factory.



625B

METALLIZED POLYCARBONATE
WRAP AND FILL, OVAL

| MFD | 50 VOLT | | | 100 VOLT | | | 200 VOLT | | | 400 VOLT | | | PART NUMBER | | | | | |
|-------|-------------|-------------|-------------|-----------------|-------------|-------------|-------------|-----------------|-------------|-------------|-------------|-----------------|-------------|-------------|-------------|-----|-----|--|
| | DIMENSIONS | | | LEAD SIZE (AWG) | DIMENSIONS | | | LEAD SIZE (AWG) | DIMENSIONS | | | LEAD SIZE (AWG) | DIMENSIONS | | | | | |
| | T ± .05" | W ± .05" | L ± .05" | | T ± .05" | W ± .05" | L ± .05" | | T ± .05" | W ± .05" | L ± .05" | | T ± .05" | W ± .05" | L ± .05" | | | |
| .0010 | .09 | .18 | .40 | 28 | .09 | .18 | .40 | 28 | .09 | .18 | .40 | 28 | .09 | .18 | .40 | 28 | 102 | |
| .0015 | .09 | .18 | .40 | 28 | .09 | .18 | .40 | 28 | .09 | .18 | .40 | 28 | .09 | .18 | .40 | 152 | | |
| .0022 | .09 | .18 | .40 | 28 | .09 | .18 | .40 | 28 | .09 | .18 | .40 | 28 | .09 | .18 | .40 | 222 | | |
| .0033 | .09 | .18 | .40 | 28 | .09 | .18 | .40 | 28 | .09 | .18 | .40 | 28 | .09 | .18 | .40 | 332 | | |
| .0047 | .09 | .18 | .40 | 28 | .09 | .18 | .40 | 28 | .09 | .18 | .40 | 28 | .14 | .24 | .40 | 472 | | |
| .0068 | .09 | .18 | .40 | 28 | .09 | .18 | .40 | 28 | .09 | .18 | .40 | 28 | .14 | .24 | .53 | 682 | | |
| .0082 | .09 | .18 | .40 | 28 | .09 | .18 | .40 | 28 | .09 | .18 | .40 | 28 | .14 | .24 | .53 | 822 | | |
| .01 | .09 | .18 | .40 | 28 | .09 | .18 | .40 | 28 | .09 | .18 | .40 | 28 | .14 | .24 | .53 | 103 | | |
| .015 | .09 | .18 | .40 | 28 | .09 | .18 | .40 | 28 | .14 | .24 | .40 | 28 | .20 | .30 | .53 | 153 | | |
| .022 | .09 | .18 | .40 | 28 | .09 | .18 | .40 | 28 | .16 | .26 | .40 | 24 | .25 | .35 | .53 | 223 | | |
| .033 | .09 | .18 | .40 | 28 | .10 | .21 | .40 | 28 | .12 | .22 | .53 | 24 | .25 | .35 | .68 | 333 | | |
| .047 | .09 | .18 | .40 | 28 | .11 | .24 | .40 | 28 | .14 | .24 | .53 | 30 | .30 | .40 | .68 | 473 | | |
| .068 | .09 | .18 | .40 | 28 | .14 | .27 | .40 | 28 | .18 | .28 | .53 | 35 | .35 | .45 | .68 | 683 | | |
| .082 | .10 | .20 | .40 | 28 | .09 | .22 | .53 | 28 | .18 | .28 | .53 | 35 | .35 | .45 | .90 | 823 | | |
| .10 | .12 | .21 | .40 | 28 | .11 | .28 | .53 | 28 | .25 | .35 | .53 | 35 | .35 | .45 | .90 | 104 | | |
| .12 | .13 | .22 | .40 | 28 | .14 | .27 | .53 | 28 | .25 | .35 | .68 | 40 | .50 | .60 | .80 | 124 | | |
| .15 | .15 | .25 | .40 | 28 | .14 | .27 | .53 | 28 | .25 | .35 | .68 | 40 | .60 | .60 | .90 | 154 | | |
| .18 | .10 | .19 | .53 | 28 | .14 | .27 | .53 | 28 | .25 | .35 | .68 | 24 | .40 | .53 | .90 | 184 | | |
| .22 | .11 | .21 | .53 | 28 | .16 | .30 | .53 | 28 | .30 | .40 | .68 | 22 | .45 | .55 | .90 | 224 | | |
| .27 | .12 | .22 | .53 | 28 | .16 | .30 | .53 | 28 | .35 | .40 | .68 | 34 | .50 | .60 | 120 | 274 | | |
| .33 | .15 | .25 | .53 | 28 | .17 | .30 | .68 | 28 | .25 | .35 | .90 | 45 | .60 | 120 | 20 | 334 | | |
| .39 | .16 | .26 | .53 | 28 | .19 | .29 | .78 | 28 | .38 | .37 | .90 | 45 | .60 | 120 | 394 | | | |
| .47 | .18 | .28 | .53 | 28 | .18 | .30 | .78 | 28 | .33 | .43 | .90 | 55 | .67 | 120 | 474 | | | |
| .56 | .20 | .29 | .53 | 24 | .20 | .33 | .78 | 24 | .33 | .43 | .90 | 44 | .60 | 168 | 564 | | | |
| .68 | .23 | .32 | .53 | 28 | .22 | .35 | .78 | 28 | .38 | .48 | .90 | 50 | .68 | 168 | 684 | | | |
| .92 | .26 | .35 | .53 | 28 | .26 | .36 | .78 | 28 | .33 | .50 | 120 | 22 | .58 | .74 | 824 | | | |
| 1.0 | .22 | .31 | .68 | 28 | .26 | .35 | .95 | 22 | .37 | .52 | 120 | 20 | .60 | .78 | 105 | | | |
| 1.2 | .24 | .34 | .68 | 28 | .29 | .39 | .95 | 28 | .39 | .56 | 120 | 68 | .88 | 168 | 125 | | | |
| 1.5 | .23 | .33 | .78 | 28 | .30 | .41 | .95 | 28 | .40 | .60 | 120 | 70 | .94 | 168 | 155 | | | |
| 1.8 | .26 | .35 | .78 | 28 | .32 | .45 | .95 | 28 | .40 | .60 | 120 | 85 | 1.02 | 168 | 185 | | | |
| 2.0 | .27 | .37 | .78 | 28 | .33 | .49 | .95 | 22 | .40 | .60 | 170 | 90 | 1.08 | 168 | 205 | | | |
| 2.5 | .31 | .40 | .78 | 28 | .31 | .48 | 1.17 | 22 | .45 | .62 | 170 | 90 | 1.08 | 225 | 305 | | | |
| 3.0 | .35 | .44 | .78 | 28 | .35 | .51 | 1.17 | 20 | .55 | .72 | 170 | 90 | 1.08 | 305 | | | | |
| 3.5 | .33 | .42 | .95 | 24 | .38 | .55 | 1.17 | | .62 | .76 | 170 | | | | 355 | | | |
| 4.0 | .36 | .45 | .95 | 22 | .37 | .54 | 1.70 | | .65 | .78 | 170 | | | | 405 | | | |
| 4.5 | .29 | .46 | 1.17 | | .37 | .54 | 1.70 | | .72 | .87 | 170 | | | | 455 | | | |
| 5.0 | .31 | .48 | 1.17 | | .40 | .56 | 1.70 | | .75 | .93 | 170 | | | | 505 | | | |
| 6.0 | .34 | .51 | 1.17 | | .42 | .58 | 1.70 | | .80 | .97 | 170 | | | | 605 | | | |
| 8.0 | .37 | .53 | 1.17 | | .50 | .66 | 1.70 | | .90 | 1.05 | 170 | | | | 805 | | | |
| 10.0 | .42 | .59 | 1.17 | | .60 | .76 | 1.70 | | .90 | 1.10 | 1.05 | 20 | | | | 105 | | |
| 12.0 | .47 | .63 | 1.17 | 22 | | | | | | | | | | | 126 | | | |
| 15.0 | .44 | .60 | 1.45 | 20 | | | | | | | | | | | 156 | | | |
| 18.0 | .48 | .63 | 1.70 | | | | | | | | | | | | 186 | | | |
| 20.0 | .52 | .68 | 1.70 | | | | | | | | | | | | 206 | | | |
| 25.0 | .58 | .75 | 1.70 | | | | | | | | | | | | 256 | | | |
| 30.0 | .64 | .81 | 1.70 | | | | | | | | | | | | 306 | | | |
| 35.0 | .70 | .87 | 1.70 | | | | | | | | | | | | 356 | | | |
| 40.0 | .76 | .93 | 1.70 | | | | | | | | | | | | 406 | | | |
| 50.0 | .87 | 1.03 | 1.70 | 20 | | | | | | | | | | | 506 | | | |

Ordering Information

Series 625C and 625D, consult factory.

625B 1 B 683 J

Voltage
 A = 50 D = 300
 B = 100 E = 400
 C = 200 F = 600

Capacitance series
number and case
style designationCircuit Symbol
1 = Case FloatingCapacitance
(See Part Number)

Tolerance
 None = ± 20%
 K = ± 10%
 J = ± 5%
 G = ± 2%
 F = ± 1%