

Type 160 Metallized Polyester Radial Lead Capacitors

Radial Box Metallized Polyester Capacitors



The Type 160 series radial lead metallized polyester box capacitors are constructed in rugged rectangular plastic cases with lead spacings that are standard in the electronics industry. All Type 160 capacitors are available in bulk with a .217" ±.039" lead length, and they are good for general purpose applications such as bypass, decoupling, energy storage/discharge and arc suppression.

Highlights

- RoHS compliant
- Rugged plastic case
- Case and epoxy fill meets UL94V0
- 10 mm through 27.5 mm lead spacings
- Non-inductively wound
- Non-polar
- Wire lead material, tinned copper clad steel

Specifications

| | |
|--------------------------------------|--|
| Capacitance Range: | 0.0022 μ F to 10.0 μ F |
| Voltage Range: | 63 Vdc to 1000 Vdc |
| Capacitance Tolerance: | \pm 5%, \pm 10%, \pm 20% |
| Operating Temperature Range: | -55 $^{\circ}$ C to +105 $^{\circ}$ C (derating voltage to 1.25% per $^{\circ}$ C above 85 $^{\circ}$ C) |
| Dielectric Withstand Voltage: | 1.6 x rated voltage for 2 sec @ +25 $^{\circ}$ C \pm 5 $^{\circ}$ C |
| Dissipation Factor (DF): | $\tan\delta \times 10^{-4}$ at 25 $^{\circ}$ C \pm 5 $^{\circ}$ C |

| kHz | C \leq 1 μ F | C > 1 μ F |
|-----|--------------------|---------------|
| 1 | \leq 100 | \leq 100 |
| 10 | \geq 150 | |

Total Self Inductance (L):

| Pitch (mm) | 10 | 15 | 22.5 | 27.5 |
|------------------|----|----|------|------|
| L (nH) \approx | 9 | 10 | 18 | 18 |

Long Term Stability (after two years): Capacitance change $\Delta C/C \leq \pm 3\%$ under standard environmental conditions

Corona (Partial Discharge Inception Voltage):
200 Vac for 100 Vdc, 200 Vdc
250 Vac for 400 Vdc, 630 Vdc
300 Vac for 1000 Vdc

Maximum Pulse Rise Time (dv/dt):

| Vn | Pitch (mm) | | | |
|---------|------------|-----|------|------|
| | 10 | 15 | 22.5 | 27.5 |
| 63 | 3 | 1.5 | 1 | 1 |
| 100/160 | 6/8 | 3 | 2 | 1 |
| 250 | 11 | 7 | 4 | 3 |
| 400 | 20 | 10 | 5.5 | 5 |
| 630 | 30 | 15 | 8 | 7 |
| 1000 | 60 | 25 | 15 | 10 |

If the working voltage (V) is less than the nominal voltage (Vn), the capacitor can work at higher dv/dt. In this case, the maximum value allowed is obtained by multiplying the above value with the ratio Vn/V.



Complies with the EU Directive 2002/95/EC requirement restricting the use of Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent chromium (Cr(VI)), PolyBrominated Biphenyls (PBB) and PolyBrominated Diphenyl Ethers (PBDE).

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Capacitor Outline Drawing

Test Method and Performance



Note: The lead diameter is a maximum dimension for lead spacing ≤15 mm and a nominal for lead spacing >15 mm

| Insulation Resistance | |
|-------------------------|---|
| Test Conditions | |
| Temperature | 25 °C ±5 °C |
| Voltage Charge Time | 1 minute |
| Voltage Charge | 50 Vdc for Vn < 100 Vdc 100 Vdc for Vn ≥ 100 Vdc |
| Performance | |
| For Vn > 100 Vdc | ≥30,000 MΩ for ≤ 0.33μF ≥10,000 MΩ x μF for C > 0.33μF |
| For Vn ≤100 Vdc | ≥10,000 MΩ for C ≤ 0.1μF ≥1,000 MΩ x μF for ≤ 0.1μF |
| Damp Heat Test | |
| Test Conditions | |
| Temperature | +40 °C |
| Relative Humidity | 95% |
| Test Duration | 21 days |
| Performance | |
| Capacitance Change ΔC/C | ≤ ±5% |
| DF Change Δtgδ | ≤50 x 10 ⁻⁴ at 1 kHz |
| Insulation Resistance | ≥ 50% of limit value |
| Life Test | |
| Test Conditions | |
| Temperature | +85 °C |
| Test Duration | 1000 hrs |
| Voltage Applied | 1.25 x Vn |
| Performance | |
| Capacitance Change ΔC/C | ≤ ±5% |
| DF Change Δtgδ | ≤30 x 10 ⁻⁴ at 10 kHz for C ≤1.0 μF ≤20 x 10 ⁻⁴ at 1 kHz for C >1.0 μF |
| Insulation Resistance | ≥ 50% of limit value |

| Soldering | |
|-------------------------|---|
| Test Conditions | |
| Soldering Temperature | 260 °C ±5 °C |
| Soldering Duration | 10 sec ±1 sec |
| Performance | |
| Capacitance Change ΔC/C | ≤ ±2% |
| DF Change Δtgδ | ≤30 x 10 ⁻⁴ at 10 kHz for C ≤1.0 μF ≤20 x 10 ⁻⁴ at 1 kHz for C >1.0 μF |

Ratings

RoHS Compliant

| Cap (μF) | Catalog Part Number | Inches | | | | | Millimeters | | | | |
|---------------|---------------------|--------|-------|-------|-------|-------|-------------|------|------|------|-----|
| | | L | T | H | S | Ød | L | T | H | S | Ød |
| 63 Vdc | | | | | | | | | | | |
| .22 | 160224*63D-F | 0.512 | 0.157 | 0.374 | 0.394 | 0.031 | 13.0 | 5.0 | 11.0 | 10.0 | 0.8 |
| .27 | 160274*63D-F | 0.512 | 0.157 | 0.374 | 0.394 | 0.031 | 13.0 | 5.0 | 11.0 | 10.0 | 0.8 |
| .33 | 160334*63E-F | 0.512 | 0.157 | 0.374 | 0.394 | 0.031 | 13.0 | 6.0 | 12.0 | 10.0 | 0.8 |
| .39 | 160394*63E-F | 0.512 | 0.157 | 0.374 | 0.394 | 0.031 | 13.0 | 6.0 | 12.0 | 10.0 | 0.8 |
| .47 | 160474*63E-F | 0.512 | 0.197 | 0.433 | 0.394 | 0.031 | 13.0 | 6.0 | 12.0 | 10.0 | 0.8 |
| .56 | 160564*63D-F | 0.512 | 0.197 | 0.433 | 0.394 | 0.031 | 13.0 | 5.0 | 11.0 | 10.0 | 0.8 |
| .68 | 160684*63D-F | 0.512 | 0.197 | 0.433 | 0.394 | 0.031 | 13.0 | 5.0 | 11.0 | 10.0 | 0.8 |
| .68 | 160684*63G-F | 0.709 | 0.236 | 0.472 | 0.591 | 0.031 | 18.0 | 6.0 | 12.0 | 15.0 | 0.8 |
| .82 | 160824*63E-F | 0.512 | 0.236 | 0.472 | 0.394 | 0.031 | 13.0 | 6.0 | 12.0 | 10.0 | 0.8 |
| .82 | 160824*63H-F | 0.709 | 0.197 | 0.433 | 0.591 | 0.031 | 18.0 | 7.5 | 13.5 | 15.0 | 0.8 |
| 1.0 | 160105*63H-F | 0.709 | 0.197 | 0.433 | 0.591 | 0.031 | 18.0 | 7.5 | 13.5 | 15.0 | 0.8 |
| 1.5 | 160155*63G-F | 0.709 | 0.236 | 0.472 | 0.591 | 0.031 | 18.0 | 6.0 | 12.5 | 15.0 | 0.8 |
| 2.2 | 160225*63H-F | 0.709 | 0.295 | 0.531 | 0.591 | 0.031 | 18.0 | 7.5 | 14.0 | 15.0 | 0.8 |
| 3.3 | 160335*63M-F | 1.043 | 0.276 | 0.650 | 0.886 | 0.031 | 18.0 | 10.0 | 16.0 | 15.0 | 0.8 |
| 4.7 | 160475*63N-F | 1.043 | 0.335 | 0.669 | 0.886 | 0.031 | 26.5 | 8.5 | 17.0 | 22.5 | 0.8 |
| 6.8 | 160685*63O-F | 1.043 | 0.394 | 0.748 | 0.886 | 0.031 | 26.5 | 10.0 | 19.0 | 22.5 | 0.8 |
| 10.0 | 160106*63P-F | 1.260 | 0.433 | 0.787 | 1.083 | 0.031 | 26.5 | 13.0 | 23.0 | 22.5 | 0.8 |

* Indicates capacitance tolerance: J = ±5%, K = ±10%, M = ±20%

Type 160 Metallized Polyester Radial Lead Capacitors

RoHS Compliant

| Cap (μ F) | Catalog Part Number | Inches | | | | | Millimeters | | | | |
|-------------------|------------------------|--------|-------|-------|-------|-----------------|-------------|------|------|------|-----------------|
| | | L | T | H | S | \varnothing d | L | T | H | S | \varnothing d |
| 100 Vdc | | | | | | | | | | | |
| .10 | 160104*100C-F | 0.512 | 0.157 | 0.374 | 0.394 | 0.031 | 13.0 | 4.0 | 9.5 | 10.0 | 0.8 |
| .12 | 160124*100C-F | 0.512 | 0.157 | 0.374 | 0.394 | 0.031 | 13.0 | 4.0 | 9.5 | 10.0 | 0.8 |
| .15 | 160154*100C-F | 0.512 | 0.157 | 0.374 | 0.394 | 0.031 | 13.0 | 4.0 | 9.5 | 10.0 | 0.8 |
| .18 | 160184*100C-F | 0.512 | 0.157 | 0.374 | 0.394 | 0.031 | 13.0 | 4.0 | 9.5 | 10.0 | 0.8 |
| .22 | 160224*100D-F | 0.512 | 0.197 | 0.433 | 0.394 | 0.031 | 13.0 | 5.0 | 11.0 | 10.0 | 0.8 |
| .27 | 160274*100D-F | 0.512 | 0.197 | 0.433 | 0.394 | 0.031 | 13.0 | 5.0 | 11.0 | 10.0 | 0.8 |
| .33 | 160334*100E-F | 0.512 | 0.236 | 0.472 | 0.394 | 0.031 | 13.0 | 6.0 | 12.0 | 10.0 | 0.8 |
| .33 | 160334*100F-F | 0.709 | 0.197 | 0.433 | 0.591 | 0.031 | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| .39 | 160394*100E-F | 0.512 | 0.236 | 0.472 | 0.394 | 0.031 | 13.0 | 6.0 | 12.0 | 10.0 | 0.8 |
| .39 | 160394*100F-F | 0.709 | 0.197 | 0.433 | 0.591 | 0.031 | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| .47 | 160474*100E-F | 0.512 | 0.236 | 0.472 | 0.394 | 0.031 | 13.0 | 6.0 | 12.0 | 10.0 | 0.8 |
| .47 | 160474*100F-F | 0.709 | 0.197 | 0.433 | 0.591 | 0.031 | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| .56 | 160564*100G-F | 0.709 | 0.236 | 0.472 | 0.591 | 0.031 | 18.0 | 6.0 | 12.0 | 15.0 | 0.8 |
| .68 | 160684*100G-F | 0.709 | 0.236 | 0.472 | 0.591 | 0.031 | 18.0 | 6.0 | 12.0 | 15.0 | 0.8 |
| .82 | 160824*100H-F | 0.709 | 0.295 | 0.531 | 0.591 | 0.031 | 18.0 | 7.5 | 13.5 | 15.0 | 0.8 |
| 1.0 | 160105*100H-F | 0.709 | 0.295 | 0.531 | 0.591 | 0.031 | 18.0 | 7.5 | 13.5 | 15.0 | 0.8 |
| 1.5 | 160155*100M-F | 1.043 | 0.276 | 0.650 | 0.886 | 0.031 | 26.5 | 7.0 | 16.5 | 22.5 | 0.8 |
| 2.2 | 160225*100N-F | 1.043 | 0.335 | 0.669 | 0.886 | 0.031 | 26.5 | 8.5 | 17.0 | 22.5 | 0.8 |
| 3.3 | 160335*100O-F | 1.043 | 0.394 | 0.748 | 0.886 | 0.031 | 26.5 | 10.0 | 19.0 | 22.5 | 0.8 |
| 4.7 | 160475*100P-F | 1.260 | 0.433 | 0.787 | 1.083 | 0.031 | 32.0 | 11.0 | 20.0 | 27.5 | 0.8 |
| 6.8 | 160685*100Q-F | 1.260 | 0.512 | 0.886 | 1.083 | 0.031 | 32.0 | 13.0 | 22.5 | 27.5 | 0.8 |
| 10.0 | 160106*100S-F | 1.457 | 0.709 | 1.299 | 1.083 | 0.031 | 37.0 | 18.0 | 33.0 | 27.5 | 0.8 |
| 160 Vdc | | | | | | | | | | | |
| .10 | 160104*160C-F | 0.512 | 0.157 | 0.374 | 0.394 | 0.031 | 13.0 | 4.0 | 9.5 | 10.0 | 0.8 |
| 250 Vdc | | | | | | | | | | | |
| .033 | 160333*250C-F | 0.512 | 0.157 | 0.374 | 0.394 | 0.031 | 13.0 | 4.0 | 9.5 | 10.0 | 0.8 |
| .039 | 160393*250C-F | 0.512 | 0.157 | 0.374 | 0.394 | 0.031 | 13.0 | 4.0 | 9.5 | 10.0 | 0.8 |
| .047 | 160473*250C-F | 0.512 | 0.157 | 0.374 | 0.394 | 0.031 | 13.0 | 4.0 | 9.5 | 10.0 | 0.8 |
| .056 | 160563*250C-F | 0.512 | 0.157 | 0.374 | 0.394 | 0.031 | 13.0 | 4.0 | 9.5 | 10.0 | 0.8 |
| .068 | 160683*250C-F | 0.512 | 0.157 | 0.374 | 0.394 | 0.031 | 13.0 | 4.0 | 9.5 | 10.0 | 0.8 |
| .082 | 160823*250D-F | 0.512 | 0.197 | 0.433 | 0.394 | 0.031 | 13.0 | 5.0 | 11.0 | 10.0 | 0.8 |
| .10 | 160104*250D-F | 0.512 | 0.197 | 0.433 | 0.394 | 0.031 | 13.0 | 5.0 | 11.0 | 10.0 | 0.8 |
| .10 | 160104*250F-F | 0.709 | 0.197 | 0.433 | 0.591 | 0.031 | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| .12 | 160124*250D-F | 0.512 | 0.236 | 0.472 | 0.394 | 0.031 | 13.0 | 6.0 | 12.0 | 10.0 | 0.8 |
| .12 | 160124*250F-F | 0.709 | 0.197 | 0.433 | 0.591 | 0.031 | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| .15 | 160154*250E-F | 0.512 | 0.236 | 0.472 | 0.394 | 0.031 | 13.0 | 6.0 | 12.0 | 10.0 | 0.8 |
| .15 | 160154*250F-F | 0.709 | 0.197 | 0.433 | 0.591 | 0.031 | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| .18 | 160184*250E-F | 0.512 | 0.236 | 0.472 | 0.394 | 0.031 | 13.0 | 6.0 | 12.0 | 10.0 | 0.8 |
| .18 | 160184*250F-F | 0.709 | 0.197 | 0.433 | 0.591 | 0.031 | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| .22 | 160224*250F-F | 0.709 | 0.197 | 0.433 | 0.591 | 0.031 | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| .27 | 160274*250G-F | 0.709 | 0.236 | 0.472 | 0.591 | 0.031 | 18.0 | 6.0 | 12.0 | 15.0 | 0.8 |
| .33 | 160334*250G-F | 0.709 | 0.236 | 0.472 | 0.591 | 0.031 | 18.0 | 6.0 | 12.0 | 15.0 | 0.8 |
| .39 | 160394*250H-F | 0.709 | 0.295 | 0.531 | 0.591 | 0.031 | 18.0 | 7.5 | 13.5 | 15.0 | 0.8 |
| .47 | 160474*250H-F | 0.709 | 0.295 | 0.531 | 0.591 | 0.031 | 18.0 | 7.5 | 13.5 | 15.0 | 0.8 |
| .47 | 160474*250L-F | 1.043 | 0.236 | 0.591 | 0.886 | 0.031 | 26.5 | 6.0 | 15.0 | 22.5 | 0.8 |
| .56 | 160564*250I-F | 0.709 | 0.335 | 0.571 | 0.591 | 0.031 | 18.0 | 8.5 | 14.5 | 15.0 | 0.8 |
| .56 | 160564*250M-F | 1.043 | 0.276 | 0.650 | 0.886 | 0.031 | 26.5 | 7.0 | 16.5 | 22.5 | 0.8 |
| .68 | 160684*250I-F | 0.709 | 0.335 | 0.571 | 0.591 | 0.031 | 18.0 | 8.5 | 14.5 | 15.0 | 0.8 |
| .68 | 160684*250M-F | 1.043 | 0.276 | 0.650 | 0.886 | 0.031 | 26.5 | 7.0 | 16.5 | 22.5 | 0.8 |
| .82 | 160824*250M-F | 1.043 | 0.335 | 0.669 | 0.886 | 0.031 | 26.5 | 8.5 | 17.0 | 22.5 | 0.8 |

* Indicates capacitance tolerance: J = $\pm 5\%$, K = $\pm 10\%$, M = $\pm 20\%$

Type 160 Metallized Polyester Radial Lead Capacitors

RoHS Compliant

| Cap (μ F) | Catalog Part Number | Inches | | | | | Millimeters | | | | |
|-------------------|------------------------|--------|-------|-------|-------|-----------------|-------------|------|------|------|-----------------|
| | | L | T | H | S | \varnothing d | L | T | H | S | \varnothing d |
| 250Vdc | | | | | | | | | | | |
| 1.0 | 160105*250N-F | 1.043 | 0.335 | 0.669 | 0.886 | 0.031 | 26.5 | 8.5 | 17.0 | 22.5 | 0.8 |
| 1.5 | 160155*250O-F | 1.043 | 0.394 | 0.748 | 0.886 | 0.031 | 26.5 | 10.0 | 19.0 | 22.5 | 0.8 |
| 2.2 | 160225*250P-F | 1.260 | 0.433 | 0.787 | 1.083 | 0.031 | 32.0 | 11.0 | 20.0 | 27.5 | 0.8 |
| 3.3 | 160335*250Q-F | 1.260 | 0.512 | 0.886 | 1.083 | 0.031 | 32.0 | 13.0 | 22.5 | 27.5 | 0.8 |
| 4.7 | 160475*250R-F | 1.260 | 0.591 | 1.181 | 1.083 | 0.031 | 32.0 | 15.0 | 30.0 | 27.5 | 0.8 |
| 6.8 | 160685*250S-F | 1.457 | 0.709 | 1.299 | 1.083 | 0.031 | 37.0 | 18.0 | 33.0 | 27.5 | 0.8 |
| 400Vdc | | | | | | | | | | | |
| .012 | 160123*400C-F | 0.512 | 0.157 | 0.374 | 0.394 | 0.031 | 13.0 | 4.0 | 9.5 | 10.0 | 0.8 |
| .015 | 160153*400C-F | 0.512 | 0.157 | 0.374 | 0.394 | 0.031 | 13.0 | 4.0 | 9.5 | 10.0 | 0.8 |
| .018 | 160183*400C-F | 0.512 | 0.157 | 0.374 | 0.394 | 0.031 | 13.0 | 4.0 | 9.5 | 10.0 | 0.8 |
| .022 | 160223*400C-F | 0.512 | 0.157 | 0.374 | 0.394 | 0.031 | 13.0 | 4.0 | 9.5 | 10.0 | 0.8 |
| .027 | 160273*400C-F | 0.512 | 0.157 | 0.374 | 0.394 | 0.031 | 13.0 | 4.0 | 9.5 | 10.0 | 0.8 |
| .033 | 160333*400D-F | 0.512 | 0.197 | 0.433 | 0.394 | 0.031 | 13.0 | 5.0 | 11.0 | 10.0 | 0.8 |
| .039 | 160393*400D-F | 0.512 | 0.197 | 0.433 | 0.394 | 0.031 | 13.0 | 5.0 | 11.0 | 10.0 | 0.8 |
| .047 | 160473*400E-F | 0.512 | 0.236 | 0.472 | 0.394 | 0.031 | 13.0 | 6.0 | 12.0 | 10.0 | 0.8 |
| .047 | 160473*400F-F | 0.709 | 0.197 | 0.433 | 0.591 | 0.031 | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| .056 | 160563*400F-F | 0.709 | 0.197 | 0.433 | 0.591 | 0.031 | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| .068 | 160683*400F-F | 0.709 | 0.197 | 0.433 | 0.591 | 0.031 | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| .082 | 160823*400F-F | 0.709 | 0.197 | 0.433 | 0.591 | 0.031 | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| .10 | 160104*400G-F | 0.709 | 0.236 | 0.472 | 0.591 | 0.031 | 18.0 | 6.0 | 12.0 | 15.0 | 0.8 |
| .12 | 160124*400G-F | 0.709 | 0.236 | 0.472 | 0.591 | 0.031 | 18.0 | 6.0 | 12.0 | 15.0 | 0.8 |
| .15 | 160154*400H-F | 0.709 | 0.295 | 0.531 | 0.591 | 0.031 | 18.0 | 7.5 | 13.5 | 15.0 | 0.8 |
| .15 | 160154*400L-F | 1.043 | 0.236 | 0.591 | 0.886 | 0.031 | 26.5 | 6.0 | 15.0 | 22.5 | 0.8 |
| .18 | 160184*400L-F | 1.043 | 0.236 | 0.591 | 0.886 | 0.031 | 26.5 | 6.0 | 15.0 | 22.5 | 0.8 |
| .22 | 160224*400L-F | 1.043 | 0.236 | 0.591 | 0.886 | 0.031 | 26.5 | 6.0 | 15.0 | 22.5 | 0.8 |
| .27 | 160274*400M-F | 1.043 | 0.276 | 0.650 | 0.886 | 0.031 | 26.5 | 7.0 | 16.5 | 22.5 | 0.8 |
| .33 | 160334*400M-F | 1.043 | 0.276 | 0.650 | 0.886 | 0.031 | 26.5 | 7.0 | 16.5 | 22.5 | 0.8 |
| .39 | 160394*400N-F | 1.043 | 0.335 | 0.669 | 0.886 | 0.031 | 26.5 | 8.5 | 17.0 | 22.5 | 0.8 |
| .47 | 160474*400N-F | 1.043 | 0.335 | 0.669 | 0.886 | 0.031 | 26.5 | 8.5 | 17.0 | 22.5 | 0.8 |
| .56 | 160564*400O-F | 1.043 | 0.394 | 0.748 | 0.886 | 0.031 | 26.5 | 10.0 | 19.0 | 22.5 | 0.8 |
| .68 | 160684*400P-F | 1.260 | 0.433 | 0.787 | 1.083 | 0.031 | 32.0 | 11.0 | 20.0 | 27.5 | 0.8 |
| .82 | 160824*400P-F | 1.260 | 0.433 | 0.787 | 1.083 | 0.031 | 32.0 | 11.0 | 20.0 | 27.5 | 0.8 |
| 1.0 | 160105*400P-F | 1.260 | 0.433 | 0.787 | 1.083 | 0.031 | 32.0 | 11.0 | 20.0 | 27.5 | 0.8 |
| 1.0 | 160105*400Q-F | 1.260 | 0.512 | 0.886 | 1.083 | 0.031 | 32.0 | 13.0 | 22.5 | 27.5 | 0.8 |
| 630Vdc | | | | | | | | | | | |
| .0039 | 160392*630C-F | 0.512 | 0.157 | 0.374 | 0.394 | 0.031 | 13.0 | 4.0 | 9.5 | 10.0 | 0.8 |
| .0047 | 160472*630C-F | 0.512 | 0.157 | 0.374 | 0.394 | 0.031 | 13.0 | 4.0 | 9.5 | 10.0 | 0.8 |
| .0056 | 160562*630C-F | 0.512 | 0.157 | 0.374 | 0.394 | 0.031 | 13.0 | 4.0 | 9.5 | 10.0 | 0.8 |
| .0068 | 160682*630C-F | 0.512 | 0.157 | 0.374 | 0.394 | 0.031 | 13.0 | 4.0 | 9.5 | 10.0 | 0.8 |
| .0082 | 160822*630C-F | 0.512 | 0.157 | 0.374 | 0.394 | 0.031 | 13.0 | 4.0 | 9.5 | 10.0 | 0.8 |
| .010 | 160103*630C-F | 0.512 | 0.157 | 0.374 | 0.394 | 0.031 | 13.0 | 4.0 | 9.5 | 10.0 | 0.8 |
| .012 | 160123*630D-F | 0.512 | 0.197 | 0.433 | 0.394 | 0.031 | 13.0 | 5.0 | 11.0 | 10.0 | 0.8 |
| .015 | 160153*630D-F | 0.512 | 0.197 | 0.433 | 0.394 | 0.031 | 13.0 | 5.0 | 11.0 | 10.0 | 0.8 |
| .018 | 160183*630D-F | 0.512 | 0.197 | 0.433 | 0.394 | 0.031 | 13.0 | 5.0 | 11.0 | 10.0 | 0.8 |
| .022 | 160223*630E-F | 0.512 | 0.236 | 0.472 | 0.394 | 0.031 | 13.0 | 6.0 | 12.0 | 10.0 | 0.8 |
| .027 | 160273*630F-F | 0.709 | 0.197 | 0.433 | 0.591 | 0.031 | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| .033 | 160333*630F-F | 0.709 | 0.197 | 0.433 | 0.591 | 0.031 | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| .039 | 160393*630G-F | 0.709 | 0.236 | 0.472 | 0.591 | 0.031 | 18.0 | 6.0 | 12.0 | 15.0 | 0.8 |
| .047 | 160473*630G-F | 0.709 | 0.236 | 0.472 | 0.591 | 0.031 | 18.0 | 6.0 | 12.0 | 15.0 | 0.8 |
| .056 | 160563*630G-F | 0.709 | 0.236 | 0.472 | 0.591 | 0.031 | 18.0 | 6.0 | 12.0 | 15.0 | 0.8 |

* Indicates capacitance tolerance: J = \pm 5%, K = \pm 10%, M = \pm 20%

Type 160 Metallized Polyester Radial Lead Capacitors

RoHS Compliant

| Cap (μ F) | Catalog Part Number | Inches | | | | | Millimeters | | | | |
|-------------------|------------------------|--------|-------|-------|-------|-----------------|-------------|------|------|------|-----------------|
| | | L | T | H | S | \varnothing d | L | T | H | S | \varnothing d |
| 630 Vdc | | | | | | | | | | | |
| .068 | 160683*630H-F | 0.709 | 0.295 | 0.531 | 0.591 | 0.031 | 18.0 | 7.5 | 13.5 | 15.0 | 0.8 |
| .068 | 160683*630L-F | 1.043 | 0.236 | 0.591 | 0.886 | 0.031 | 26.5 | 6.0 | 15.0 | 22.5 | 0.8 |
| .082 | 160823*630L-F | 1.043 | 0.236 | 0.591 | 0.886 | 0.031 | 26.5 | 6.0 | 15.0 | 22.5 | 0.8 |
| .10 | 160104*630L-F | 1.043 | 0.236 | 0.591 | 0.886 | 0.031 | 26.5 | 6.0 | 15.0 | 22.5 | 0.8 |
| .12 | 160124*630M-F | 1.043 | 0.276 | 0.650 | 0.886 | 0.031 | 26.5 | 7.0 | 16.5 | 22.5 | 0.8 |
| .15 | 160154*630M-F | 1.043 | 0.276 | 0.650 | 0.886 | 0.031 | 26.5 | 7.0 | 16.5 | 22.5 | 0.8 |
| .18 | 160184*630N-F | 1.043 | 0.335 | 0.669 | 0.886 | 0.031 | 26.5 | 8.5 | 17.0 | 22.5 | 0.8 |
| .22 | 160224*630N-F | 1.043 | 0.335 | 0.669 | 0.886 | 0.031 | 26.5 | 8.5 | 17.0 | 22.5 | 0.8 |
| .27 | 160274*630Q-F | 1.260 | 0.512 | 0.886 | 1.083 | 0.031 | 32.0 | 13.0 | 22.5 | 27.5 | 0.8 |
| .33 | 160334*630P-F | 1.260 | 0.433 | 0.787 | 1.083 | 0.031 | 32.0 | 11.0 | 20.0 | 27.5 | 0.8 |
| .39 | 160394*630P-F | 1.260 | 0.433 | 0.787 | 1.083 | 0.031 | 32.0 | 11.0 | 20.0 | 27.5 | 0.8 |
| .47 | 160474*630Q-F | 1.260 | 0.512 | 0.886 | 1.083 | 0.031 | 32.0 | 13.0 | 22.5 | 27.5 | 0.8 |
| 1000 Vdc | | | | | | | | | | | |
| .0022 | 160222*1000C-F | 0.512 | 0.157 | 0.374 | 0.394 | 0.031 | 13.0 | 4.0 | 9.5 | 10.0 | 0.8 |
| .0027 | 160272*1000C-F | 0.512 | 0.157 | 0.374 | 0.394 | 0.031 | 13.0 | 4.0 | 9.5 | 10.0 | 0.8 |
| .0033 | 160332*1000C-F | 0.512 | 0.157 | 0.374 | 0.394 | 0.031 | 13.0 | 4.0 | 9.5 | 10.0 | 0.8 |
| .0039 | 160392*1000D-F | 0.512 | 0.197 | 0.433 | 0.394 | 0.031 | 13.0 | 5.0 | 11.0 | 10.0 | 0.8 |
| .0047 | 160472*1000D-F | 0.512 | 0.197 | 0.433 | 0.394 | 0.031 | 13.0 | 5.0 | 11.0 | 10.0 | 0.8 |
| .0056 | 160562*1000D-F | 0.512 | 0.197 | 0.433 | 0.394 | 0.031 | 13.0 | 5.0 | 11.0 | 10.0 | 0.8 |
| .0068 | 160682*1000D-F | 0.512 | 0.197 | 0.433 | 0.394 | 0.031 | 13.0 | 5.0 | 11.0 | 10.0 | 0.8 |
| .0082 | 160822*1000D-F | 0.512 | 0.197 | 0.433 | 0.394 | 0.031 | 13.0 | 5.0 | 11.0 | 10.0 | 0.8 |
| .010 | 160103*1000F-F | 0.709 | 0.197 | 0.433 | 0.591 | 0.031 | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| .012 | 160123*1000F-F | 0.709 | 0.197 | 0.433 | 0.591 | 0.031 | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| .015 | 160153*1000F-F | 0.709 | 0.236 | 0.472 | 0.591 | 0.031 | 18.0 | 6.0 | 12.0 | 15.0 | 0.8 |
| .018 | 160183*1000G-F | 0.709 | 0.236 | 0.472 | 0.591 | 0.031 | 18.0 | 6.0 | 12.0 | 15.0 | 0.8 |
| .022 | 160223*1000G-F | 0.709 | 0.236 | 0.472 | 0.591 | 0.031 | 18.0 | 6.0 | 12.0 | 15.0 | 0.8 |
| .027 | 160273*1000H-F | 0.709 | 0.295 | 0.531 | 0.591 | 0.031 | 18.0 | 7.5 | 13.5 | 15.0 | 0.8 |
| .033 | 160333*1000L-F | 1.043 | 0.236 | 0.591 | 0.886 | 0.031 | 26.5 | 6.0 | 15.0 | 22.5 | 0.8 |
| .039 | 160393*1000L-F | 1.043 | 0.236 | 0.591 | 0.886 | 0.031 | 26.5 | 6.0 | 15.0 | 22.5 | 0.8 |
| .047 | 160473*1000L-F | 1.043 | 0.236 | 0.591 | 0.886 | 0.031 | 26.5 | 6.0 | 15.0 | 22.5 | 0.8 |
| .056 | 160563*1000M-F | 1.043 | 0.276 | 0.650 | 0.886 | 0.031 | 26.5 | 7.0 | 16.5 | 22.5 | 0.8 |
| .068 | 160683*1000M-F | 1.043 | 0.276 | 0.650 | 0.886 | 0.031 | 26.5 | 7.0 | 16.5 | 22.5 | 0.8 |
| .082 | 160823*1000N-F | 1.043 | 0.335 | 0.669 | 0.886 | 0.031 | 26.5 | 8.5 | 17.0 | 22.5 | 0.8 |
| .10 | 160104*1000N-F | 1.043 | 0.335 | 0.669 | 0.886 | 0.031 | 26.5 | 8.5 | 17.0 | 22.5 | 0.8 |
| .12 | 160124*1000O-F | 1.043 | 0.394 | 0.748 | 0.886 | 0.031 | 26.5 | 10.0 | 19.0 | 22.5 | 0.8 |
| .15 | 160154*1000P-F | 1.260 | 0.433 | 0.787 | 1.083 | 0.031 | 32.0 | 11.0 | 20.0 | 27.5 | 0.8 |
| .18 | 160184*1000Q-F | 1.260 | 0.512 | 0.886 | 1.083 | 0.031 | 32.0 | 13.0 | 22.5 | 27.5 | 0.8 |
| .22 | 160224*1000Q-F | 1.260 | 0.512 | 0.886 | 1.083 | 0.031 | 32.0 | 13.0 | 22.5 | 27.5 | 0.8 |

* Indicates capacitance tolerance: J = \pm 5%, K = \pm 10%, M = \pm 20%

Part Numbering System

| | | | | | |
|---------------|---------------------|------------------|-----------------|------------------|-----------------------|
| 160 | 104 | K | 100 | C | -F |
| | | | | | |
| Series | Capacitance | Tolerance | Voltage | Case Code | ROHS Compliant |
| 160 | 392 = .0039 μ F | J = \pm 5% | 100 = 100 Vdc | C | |
| | 103 = .01 μ F | K = \pm 10% | 250 = 250 Vdc | D | |
| | 104 = .1 μ F | M = \pm 20% | 630 = 630 Vdc | E | |
| | 105 = 1.0 μ F | | 1000 = 1000 Vdc | F | |
| | | | | etc. | |

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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