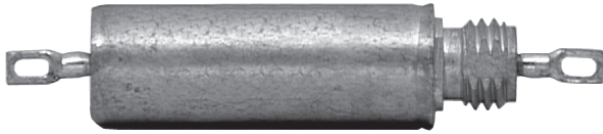


Paper Capacitors Metal Case, Film/Foil, 10 Ampere Thru-Pass, Subminiature



FEATURES

- Bulkhead mounting
- Excellent RFI specifications
- Hermetically enclosed
- Low inductance connection
- Low insertion loss

PERFORMANCE CHARACTERISTICS

Operating Temperature: - 55°C to + 125°C.
Capacitance Range: 0.001µF to 1.0µF.
Capacitance Tolerance: ± 20%, ± 10%.
Voltage Rating: 200 WVDC to 600 WVDC.
Current Rating: 10 ampere maximum.
Dissipation Factor: 1.0% maximum.
DC Resistance: 0.01 ohm maximum.
Voltage Test: 200% of rated voltage for 1 minute.
Insulation Resistance: At + 25°C: 20,000 Megohm - Microfarads or 30,000 Megohm minimum. At + 85°C: 200 Megohm - Microfarads or 300 Megohm minimum.

ENVIRONMENTAL CHARACTERISTICS

Vibration Test (Condition A): No mechanical damage, short, open or intermittent circuits.

DC Life Test: 140% of rated voltage for 250 hours @ + 125°C. No open or short circuits. No visible damage. Maximum Δ Cap.: ± 5%. Minimum I.R. = 30% of initial limit. Maximum D.F. = 1.5%.

Moisture Resistance: MIL-STD-202, Method 106E, 10 cycles. No visible damage. Maximum Δ Cap.: ± 5%. Minimum I.R. = 30% of initial limit. Maximum D.F. = 1.5%.

Thermal Shock and Immersion Cycling: No visible damage. Maximum Δ Cap.: ± 5%. Minimum I.R. = 30% of initial limit. Maximum D.F. = 1.5%.

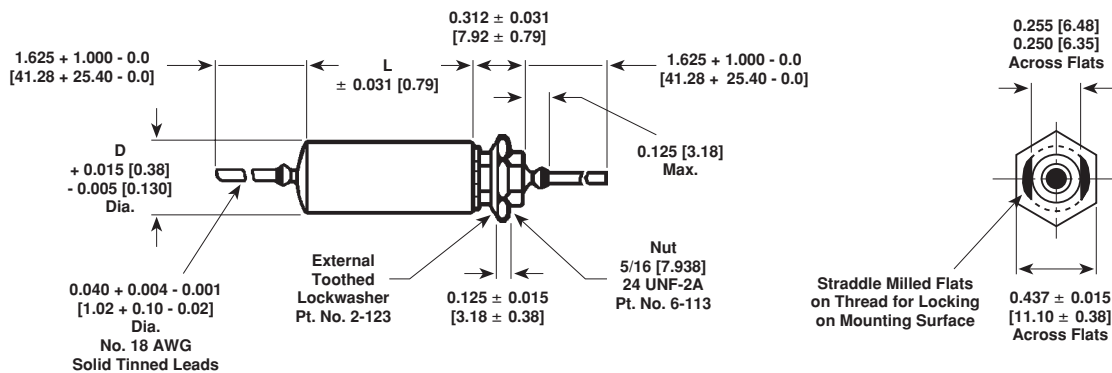
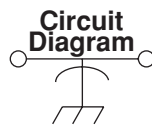
PHYSICAL CHARACTERISTICS

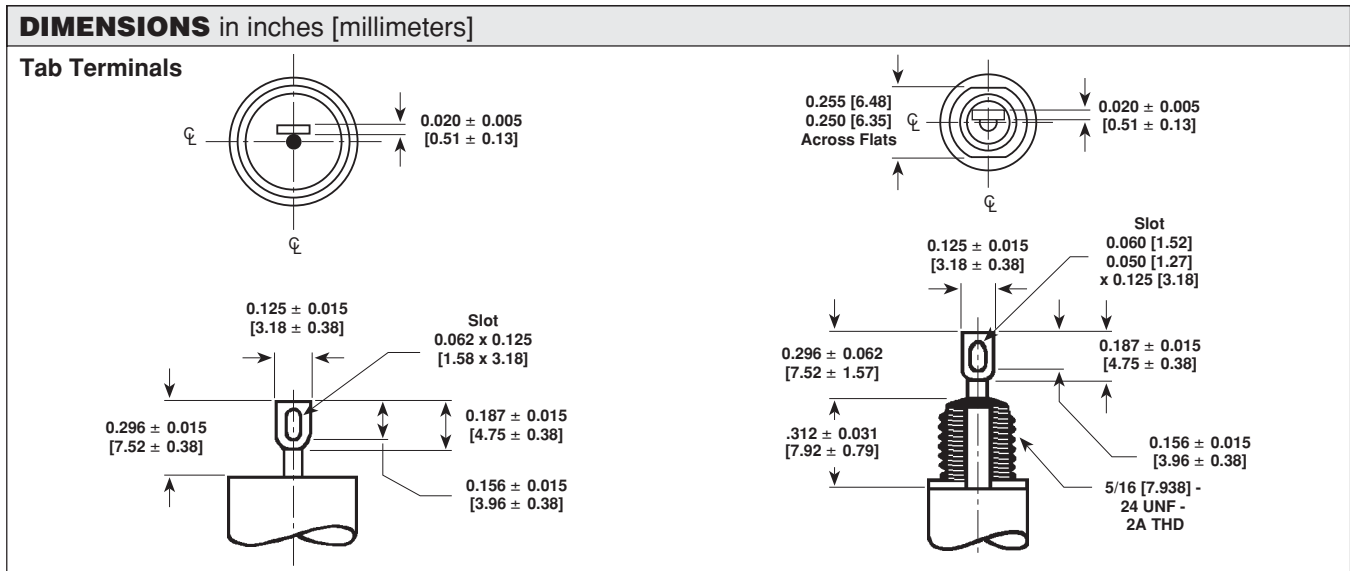
Lead Pull: 5 pounds (2.3 kilograms) for one minute. No physical damage.

Lead Bend: After three complete consecutive bends, no damage.

Marking: Sprague® trademark, type or part number, capacitance and voltage.

DIMENSIONS in inches [millimeters]





STANDARD RATINGS in inches [millimeters]

| CAPACITANCE (μ F) | PART NUMBER* | | NOMINAL CASE SIZE D x L |
|---------------------------|-----------------|----------------|-------------------------------|
| | TAB TERMINAL | WIRE LEAD | |
| 200 WVDC | | | |
| 0.047 | 103P473X0200T | 103P473X0200S | 0.400 x 0.875 [10.16 x 22.23] |
| 0.10 | 103P104X0200T** | 103P104X0200S | 0.400 x 1.125 [10.16 x 28.58] |
| 0.22 | 103P224X0200T | 103P224X0200S | 0.562 x 1.125 [14.27 x 28.58] |
| 0.47 | 103P474X0200T** | 103P474X0200S | 0.562 x 1.875 [14.27 x 47.63] |
| 1.00 | 103P105X0200T | 103P105X0200S | 0.750 x 2.125 [19.05 x 53.98] |
| 300 WVDC | | | |
| 0.047 | 103P473X0300T | 103P473X0300S | 0.400 x 1.125 [10.16 x 28.58] |
| 0.10 | 103P104X0300T | 103P104X0300S | 0.400 x 1.375 [10.16 x 34.93] |
| 0.22 | 103P224X0300T | 103P224X0300S | 0.562 x 1.375 [14.27 x 34.93] |
| 0.47 | 103P474X0300T | 103P474X0300S | 0.670 x 1.875 [17.02 x 47.63] |
| 400 WVDC | | | |
| 0.047 | 103P473X0400T | 103P473X0400S | 0.400 x 1.375 [10.16 x 34.93] |
| 0.10 | 103P104X0400T** | 103P104X0400S* | 0.562 x 1.125 [14.27 x 28.58] |
| 0.22 | 103P224X0400T** | 103P224X0400S* | 0.562 x 1.875 [14.27 x 47.63] |
| 0.47 | 103P474X0400T | 103P474X0400S | 0.750 x 2.125 [19.05 x 53.98] |
| 600 WVDC | | | |
| 0.001 | 103P102X0600T | 103P102X0600S | 0.400 x 0.750 [10.16 x 19.05] |
| 0.0047 | 103P472X0600T** | 103P472X0600S* | 0.400 x 0.750 [10.16 x 19.05] |
| 0.01 | 103P103X0600T** | 103P103X0600S* | 0.400 x 0.750 [10.16 x 19.05] |
| 0.047 | 103P473X0600T | 103P473X0600S | 0.400 x 1.375 [10.16 x 34.93] |
| 0.10 | 103P104X0600T** | 103P104X0600S* | 0.562 x 1.375 [14.27 x 34.93] |
| 0.22 | 103P224X0600T** | 103P224X0600S* | 0.670 x 1.875 [17.02 x 47.63] |
| 0.47 | 103P474X0600T | 103P474X0600S | 0.750 x 2.375 [19.05 x 60.32] |

* The Part Numbers given are for capacitance tolerance of $\pm 20\%$. To specify $\pm 10\%$ tolerance, change X0 to X9.

** All standard inventoried Part Numbers will be stocked with a $\pm 10\%$ tolerance (X9).

ORDERING INFORMATION

| | | | | |
|---------------------|--|---|---------------------------------|-------------------------------------|
| 103P TYPE | 473 CAPACITANCE | X0 CAPACITANCE TOLERANCE | 200 DC VOLTAGE RATING | S TERMINAL |
| | This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow. | X0 = $\pm 20\%$ X9 = $\pm 10\%$ (Inventoried) | This is expressed in volts. | S = Wire Leads T = Soldering Tab |