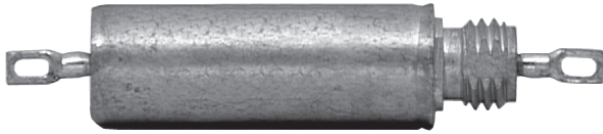


Paper Capacitors Metal Case, Film/Foil, 10 Ampere Thru-Pass, Subminiature



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%.

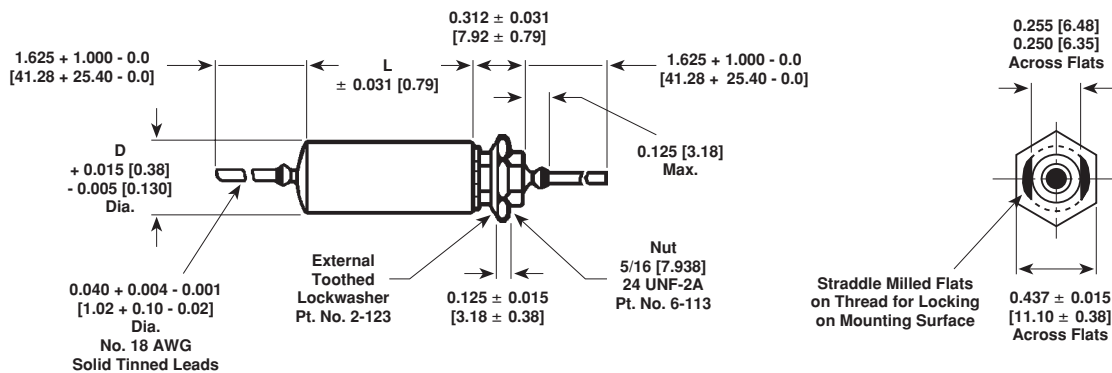
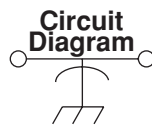
PHYSICAL CHARACTERISTICS

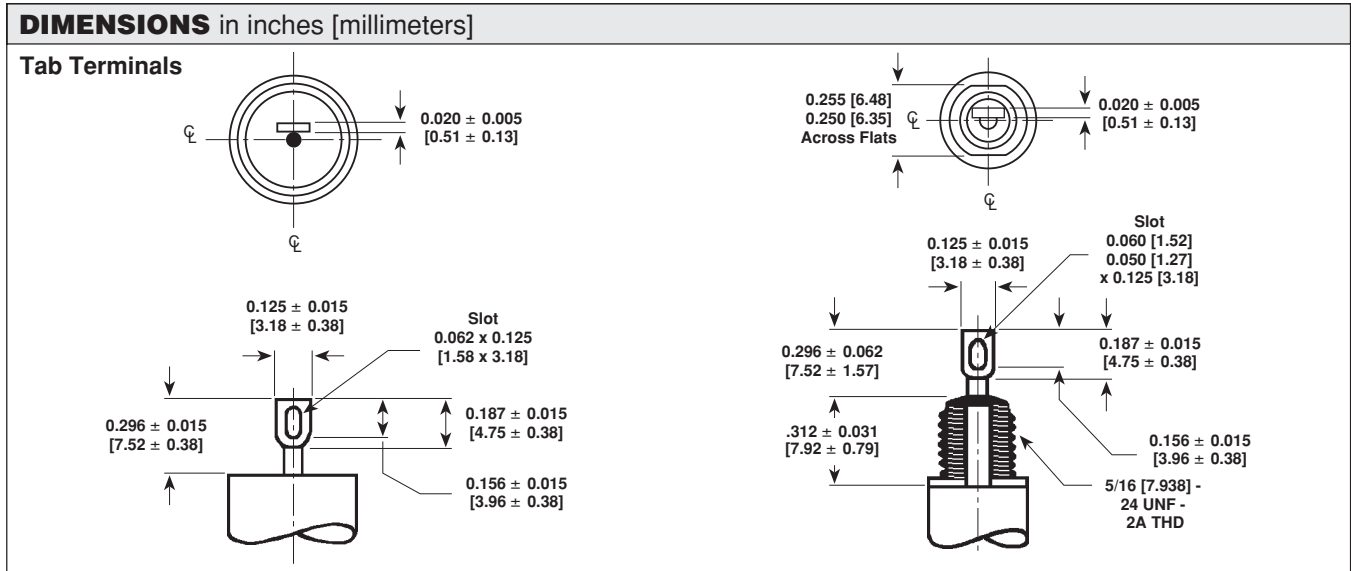
Lead Pull: 5 pounds (2.3 kilograms) for one minute. No physical damage.

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 |



Notice

Specifications of the products displayed herein are subject to change without notice. Vishay Intertechnology, Inc., or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Vishay's terms and conditions of sale for such products, Vishay assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of Vishay products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Vishay for any damages resulting from such improper use or sale.