

Type 103P

Vishay Sprague



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

**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.**FEATURES**

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

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%.

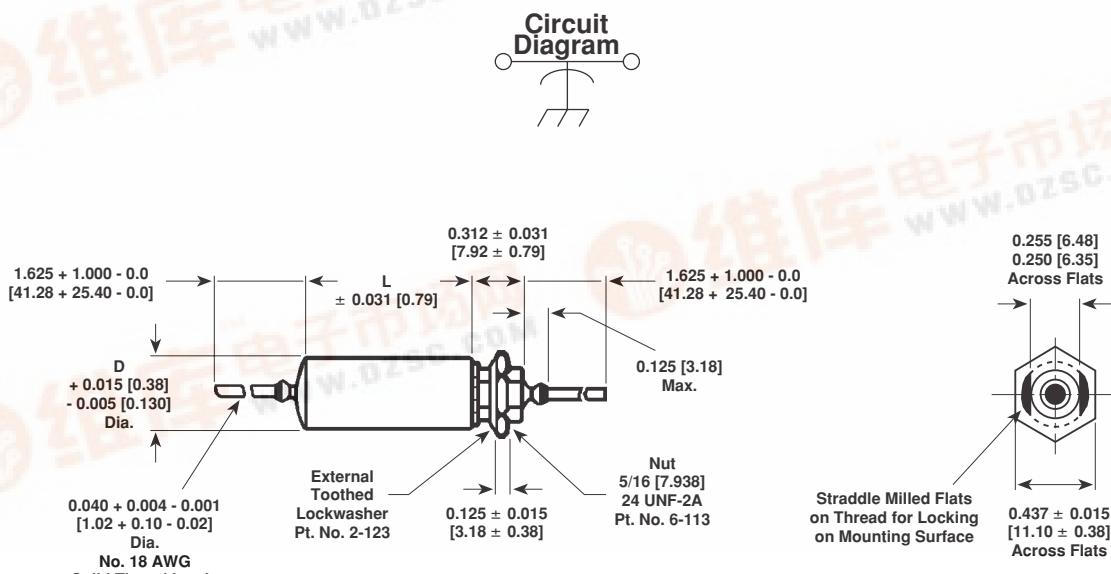
Thermal Shock and Immersion Cycling: No visible damage. Maximum Δ Cap.: ± 5%. Minimum I.R. = 30% of initial limit. Maximum D.F. = 1.5%.

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]

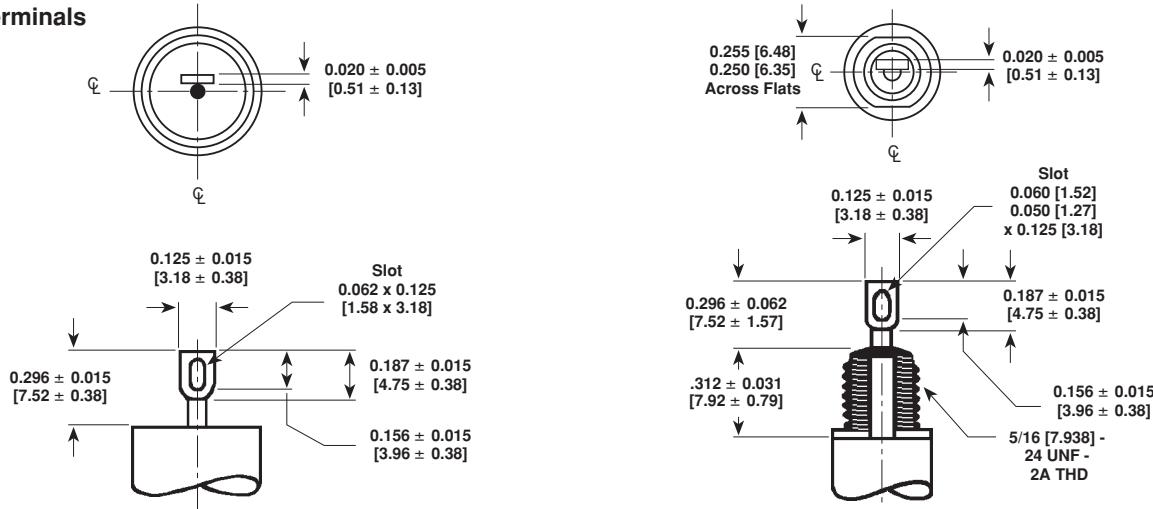


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DIMENSIONS in inches [millimeters]

Tab Terminals

**STANDARD RATINGS** in inches [millimeters]

CAPACITANCE (μ F)	PART NUMBER*	TAB TERMINAL	WIRE LEAD	NOMINAL CASE SIZE D x L
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