Vishay Sprague



Film Snubber Capacitors Metal-Case, Paper/Polyester, Dielectric Extended Foil Electrodes



PERFORMANCE CHARACTERISTICS

Operating Temperature: - 65°C to + 125°C. **Capacitance Range:** 0.01μF to 0.47μF.

Capacitance Tolerance: ± 20%, ± 10%, ± 5%, ± 2%.

Voltage Rating: 600 WVDC to 1000 WVDC.

Dissipation Factor: 1.0% maximum.

Voltage Test: 200% of rated DC voltage for 2 minutes.

Insulation Resistance: At + 25°C: 20,000 Megohm Microfarads or 30,000 Megohm minimum. At + 125°C:
20 Megohm - Microfarads or 250 Megohm minimum.

Capacitance Change with Temperature: At - 65°C,
- 10% typical. At + 125°C, + 10% typical.

ENVIRONMENTAL CHARACTERISTICS

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

FEATURES

- Suggested replacement for Type 196P
- Moderate cost
- Small size
- · High peak current ratings
- · High corona starting voltage

DC Life Test: 140% of rated voltage for 250 hours @ + 125°C. No open or short circuits. No visible damage. Maximum Capacitance Change: \pm 5%. Minimum IR = 60% of initial limit. Maximum DF = 1.0%.

Moisture Resistance: MIL-STD-202, Method 106E, 10 cycles. No visible damage. Maximum Capacitance Change: ± 3%. Minimum IR = 60% of initial limit. Maximum DF = 1.2%. Thermal Shock and Immersion Cycling: No visible damage. Maximum Capacitance Change: ± 1%. Minimum IR = 50% of initial limit. Maximum DF = 1.2%.

PHYSICAL CHARACTERISTICS

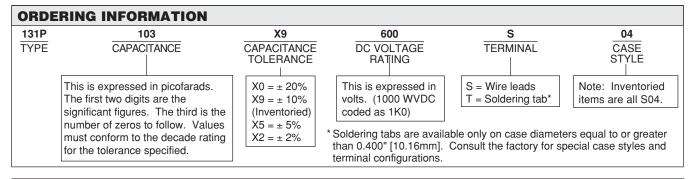
Lead Pull: 5 pounds (2.3 kilograms) for one minute. No physical damage.

Lead Bend: After three complete consecutive bends, no damage. Lead Wire: Bare, solid tinned wire. Case Diameters: .312" [7.92mm], No. 22 AWG; .400" [10.16mm] and over, No. 20 AWG. Marking: Sprague® trademark, type or part number,

capacitance and voltage.

STANDARD RATINGS in inches [millimeters]						
CAPACITANCE (μF)	PART NUMBER ± 10% TOLERANCE	NOMINAL CASE SIZE D x L	Max. rms CURRENT @ + 85°C	Max. PEAK CURRENT @ + 85°C	Max. rms CURRENT @ + 125°C	Max. PEAK CURRENT @ + 125°C
		600 WVDC / 370 V	VAC			
0.010 0.022 0.047 0.10 0.22 0.47	131P103X9600S02* 131P223X9600S02* 131P473X9600S02* 131P104X9600S02 131P224X9600S02 131P474X9600S02	0.312 x 0.875 [7.92 x 22.23] 0.400 x 0.875 [10.16 x 22.23] 0.400 x 1.375 [10.16 x 34.93] 0.562 x 1.375 [14.27 x 34.93] 0.670 x 1.625 [17.02 x 41.28] 0.750 x 2.375 [19.05 x 60.33]	0.037 0.058 0.085 0.149 0.354 0.656	1.5 3.3 7.0 15.0 33.0 70.0	0.025 0.041 0.059 0.104 0.247 0.459	1.0 2.3 4.9 10.5 23.1 49.0
		1000 WVDC / 500	VAC			
0.010 0.022 0.047 0.10 0.22 0.47	131P103X91K0S02* 131P223X91K0S02* 131P473X91K0S02* 131P104X91K0S02* 131P224X91K0S02* 131P474X91K0S02*	0.400 x 0.875 [10.16 x 22.23] 0.400 x 1.375 [10.16 x 34.93] 0.562 x 1.375 [14.27 x 34.93] 0.670 x 1.625 [17.02 x 41.28] 0.750 x 2.125 [19.05 x 53.98] 1.000 x 2.375 [25.40 x 60.33]	0.039 0.079 0.133 0.241 0.427 0.772	2.5 5.5 11.0 25.0 55.0 117.0	0.027 0.055 0.093 0.168 0.298 0.540	1.7 3.8 7.7 17.5 38.5 81.9

^{*} All standard inventoried Part Numbers will be stocked in terminal and case style number S04.



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Vishay

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