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: \pm 20%, \pm 10%, \pm 5%, \pm 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: $\pm 1\%$. Minimum IR = 50% of initial limit. Maximum DF = 1.2%.

PHYSICAL CHARACTERISTICS

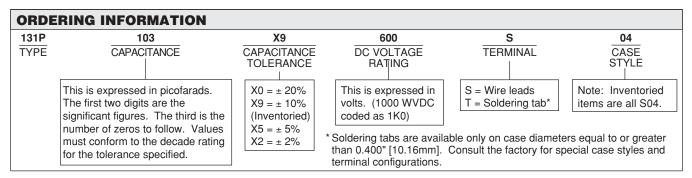
Lead Pull: 5 pounds (2.3 kilograms) for one minute. No physical damage.

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	AC			
0.010	131P103X9600S02*	0.312 x 0.875 [7.92 x 22.23]	0.037	1.5	0.025	1.0
0.022	131P223X9600S02*	0.400 x 0.875 [10.16 x 22.23]	0.058	3.3	0.041	2.3
0.047	131P473X9600S02*	0.400 x 1.375 10.16 x 34.93	0.085	7.0	0.059	4.9
0.10	131P104X9600S02	0.562 x 1.375 [14.27 x 34.93]	0.149	15.0	0.104	10.5
0.22	131P224X9600S02	0.670 x 1.625 [17.02 x 41.28]	0.354	33.0	0.247	23.1
0.47	131P474X9600S02	0.750 x 2.375 [19.05 x 60.33]	0.656	70.0	0.459	49.0
		1000 WVDC / 500	VAC			
0.010	131P103X91K0S02*	0.400 x 0.875 [10.16 x 22.23]	0.039	2.5	0.027	1.7
0.022	131P223X91K0S02*	0.400 x 1.375 [10.16 x 34.93]	0.079	5.5	0.055	3.8
0.047	131P473X91K0S02*	0.562 x 1.375 [14.27 x 34.93]	0.133	11.0	0.093	7.7
0.10	131P104X91K0S02*	0.670 x 1.625 [17.02 x 41.28]	0.241	25.0	0.168	17.5
0.22	131P224X91K0S02*	0.750 x 2.125 [19.05 x 53.98]	0.427	55.0	0.298	38.5
0.47	131P474X91K0S02*	1.000 x 2.375 [25.40 x 60.33]	0.772	117.0	0.540	81.9

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





Vishay

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.