

## R-C Arc Suppressors ORANGE DROP<sup>®</sup>, Radial Lead

Contact Arc Suppression reduces field maintenance, premature equipment failure and RFI. A capacitor connected across the contacts helps in the solution of these problems but can cause contact welding and reduced equipment reliability. By adding a resistor in series with the capacitor, these additional problems are eliminated.

Because of the increased use of R-C combinations for Arc Suppressors and snubbers, Sprague<sup>®</sup> provides low cost Type 288P R-C Arc Suppressors in a single low profile package.

The standard ratings shown have those combinations of resistance and capacitance values most commonly required for low power applications.

The standard Type 288P R-C Arc Suppressors consist of a metalized polyester film capacitor in series with a low value 1/2 watt composition resistor. These units are supplied with radial leads for quick and easy installation.

The outer covering is a tough, conformal coating of epoxy resin for protection against heat and moisture. The Arc Suppressors are quite similar in appearance to the Type 225P Orange Drop<sup>®</sup> polyester film capacitors.



### PERFORMANCE CHARACTERISTICS

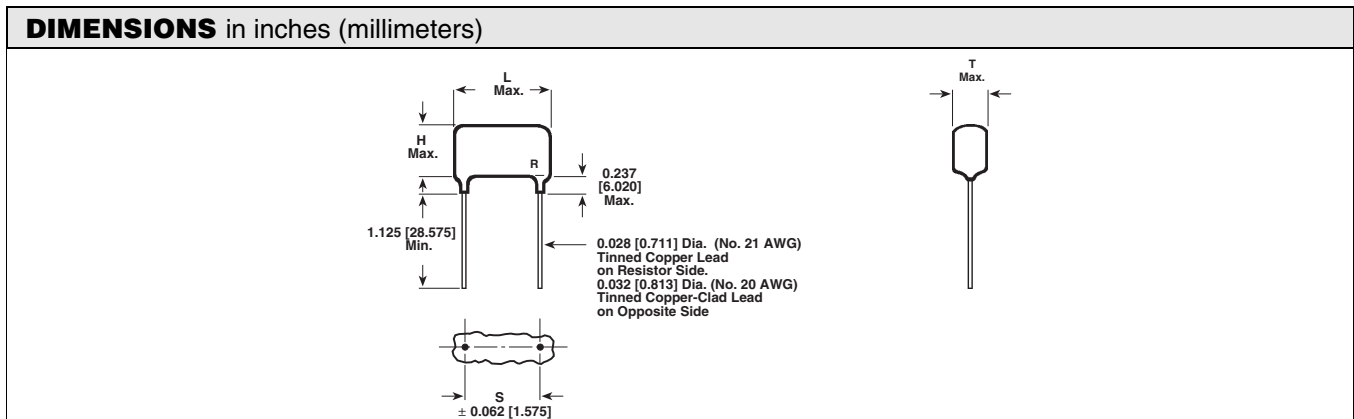
**Operating Temperature:** - 40 °C to + 85 °C

**Insulation Resistance:** When measured at + 25 °C, the insulation resistance shall exceed 10000 Megohm. Measurements shall be made after a 2 minute charge at rated DC voltage.

**Tolerance:** Standard tolerance is  $\pm 10\%$  for both the resistor and capacitor.

**Humidity Test:** Condition networks with no voltage applied for 72 hours at 95 % relative humidity and + 75 °C. Remove networks from humidity chamber, wipe surface dry of moisture and dry in circulating air for 4 hours. Measure insulation resistance at + 25 °C and rated DC voltage. The minimum insulation resistance shall be 5000 Megohm after test. Not more than one failure in 18 units tested shall be permitted.

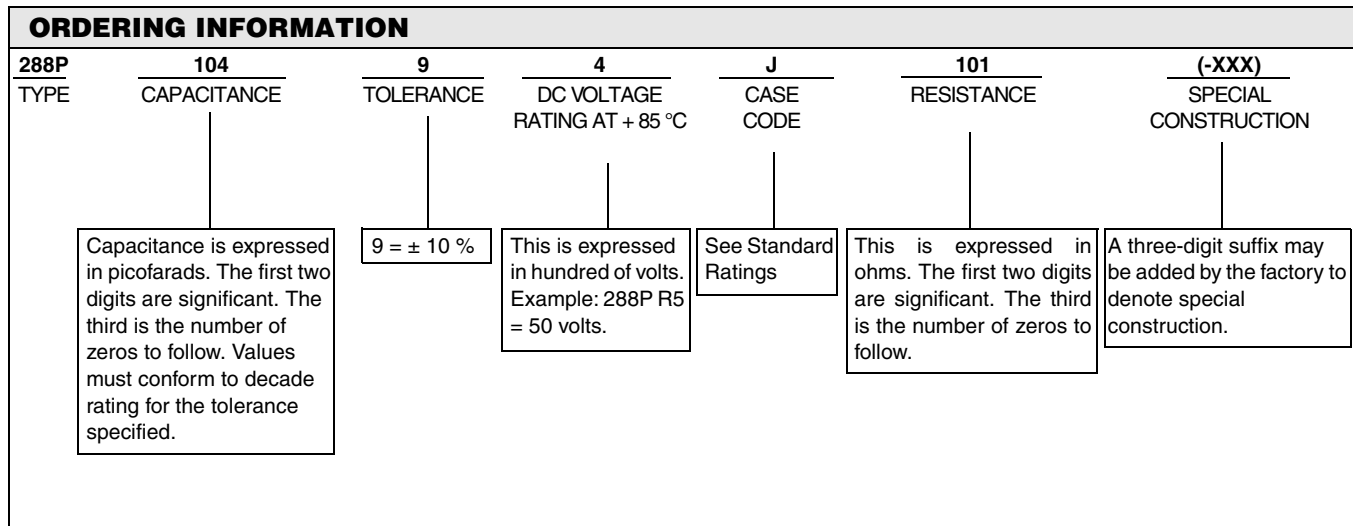
**AC Operation:** The maximum permissible AC voltage to which these networks may be exposed is 250 volts rms. In no case should the sum of the DC and peak AC voltage applied to a network exceed the rated DC voltage.





<b>STANDARD RATINGS AND DIMENSIONS</b> In inches [millimeters]						
CAPACITANCE ( $\mu\text{F}$ )	RESISTANCE* ( $\Omega$ )	PART NUMBER	L (Length)	H (Height)	T (Thickness)	LEAD SPACING
<b>400 VDC</b>						
0.1	100	288P10494J101	1.000 [25.400]	0.63 [16.00]	0.46 [11.68]	0.691 [17.551]
0.1	470	288P10494J471	1.000 [25.400]	0.63 [16.00]	0.46 [11.68]	0.691 [17.551]
0.22	100	288P22494H101	1.125 [28.575]	0.59 [14.99]	0.37 [9.40]	0.817 [20.752]
0.22	470	288P22494H471	1.125 [28.575]	0.59 [14.99]	0.37 [9.40]	0.817 [20.752]
0.47	47	288P47494K470	1.437 [36.500]	0.63 [16.00]	0.41 [10.41]	1.129 [28.677]
0.47	100	288P47494K101	1.437 [36.500]	0.63 [16.00]	0.41 [10.41]	1.129 [28.677]

\* Standard resistor values are 47, 100 and 470 ohms. Other values are available by request.





## Disclaimer

All product specifications and data are subject to change without notice.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.