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Vishay Dale

Wirewound Resistors, Open Style, Current Shunts, **Custom Tailored, Very Low Value, High Precision**



FEATURES

· Custom-made four-terminal resistors to meet your individual specifications



- Extremely low resistance values for current sensing applications
- Precision resistance tolerance
- Low temperature coefficients
- Complete welded construction
- · Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

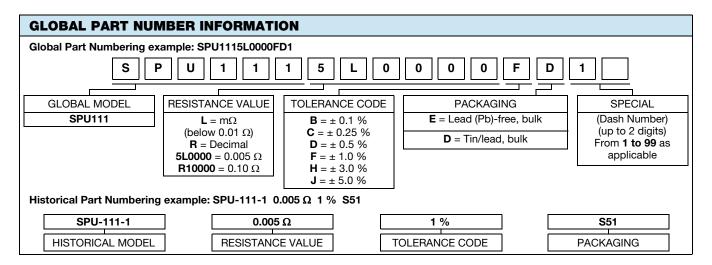
The mechanical configurations and electrical properties of our shunts are made to your specifications. The following are examples of "Typical Electrical Specifications" from several existing custom designs. Consult our engineering department for help in designing your own configuration and/or electrical properties, see email address at the bottom of this page.

STANDARD ELECTRICAL SPECIFICATIONS					
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING P _{25°C} W	RESISTANCE RANGE Ω	TOLERANCE ± %	CURRENT RATING (maximum) A
SPU104	SPU-104	1.875	0.0025 to 0.010	1	25
SPU1111	SPU-111-1	1	0.005	1	10
SPU114	SPU-114	1	0.00167 to 0.020	1	10

Note

Resistance tolerances available are 0.1 %, 0.25 %, 0.5 %, 1.0 %, 3.0 %, and 5.0 % depending on resistor physical design and resistance value

TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT	SPU OPEN STYLE RESISTOR CHARACTERISTICS		
Temperature Coefficient	ppm/°C	Typical is ± 100 (- 10 °C to + 80 °C) consult factory for tighter TCR availability		
Resistance Range	Ω	Dependent upon configuration, consult factory		
Maximum Current Rating	Α	Dependent upon configuration, consult factory		
Operating Temperature Range	°C	- 55 to + 275		



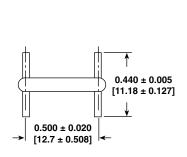
Revision: 11-Jul-13 Document Number: 30240

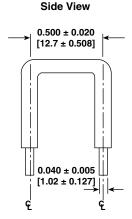


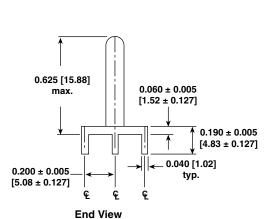
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DIMENSIONS in inches [millimeters] **SPU104** Top View



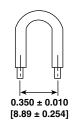


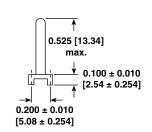


End View

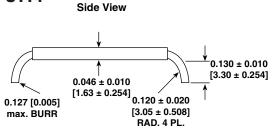
SPU111...1

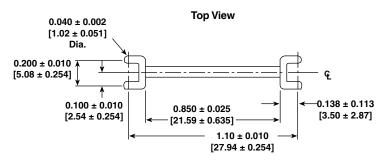
Side View











MATERIAL SPECIFICATIONS

Element: Copper-nickel alloy or nickel-chrome alloy, depending on resistor type and/or resistance value

Coating: None

Standard Terminals: SPU104: 100 % Sn, w/Nickel

underplate, or 60/40 Sn/Pb coated copper

Other Models: 100 % Sn, w/Nickel underplate, or 60/40

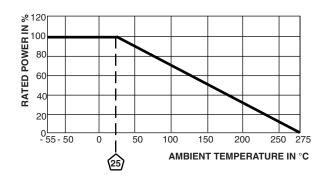
Sn/Pb coated Copperweld®

Part Marking: None

AMBIENT TEMPERATURE DERATING

Derating is required for ambient temperatures above 25 °C per the following graph:

DERATING





Legal Disclaimer Notice

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