

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Bulk Metal[®] Foil Technology Power Current Sensing Resistors with TCR of <u>5 ppm/°C</u> and Power Rating up to <u>7 W</u>



Any value available within resistance range

These Bulk Metal® Foil power current sensing resistors are direct replacements for certain wirewound devices but without the inductive characteristics of wirewounds. The anodized aluminum housing is drilled and countersunk to accept flat head screws for thermal mounting. Because the device is internally Kelvin connected, there is no restriction on the lead lengths as would be the case if this were a two terminal device. Frequently used in YIG oscillator circuits these devices contribute to superior frequency stability.

TABLE 1 - SPECIFICATIONS				
MODEL NUMBER	RESISTANCE RANGE (Ω)	TOLERANCE TO	MAXIMUM WORKING VOLTAGE	POWER ¹⁾ RATING at 25 °C
	1 to 10	± 0.1 %		
VPR5	> 10 to 100	± 0.05 %	300 V	5 W
	> 100 to 100K	± 0.01 %		
	1 to 10	± 0.1 %		
VPR7	> 10 to 100	± 0.05 %	300 V	7 W
	> 100 to 100K	± 0.01 %		

Note

1. Mounted on aluminum chassis (6" L x 4" W x 2" H x 0.040" Th) per MIL-R-39009/1B.

FEATURES

Temperature Coefficient of Resistance (TCR):
± 5 ppm/°C (Above 10 Ω)
± 10 ppm/°C (Below 10 Ω)



RoHS

• Tolerance: to ± 0.01 %

• Resistance Range: 1 Ω to 100 k Ω

• Electrostatic Discharge (ESD) above 25 000 V

Non Inductive, Non Capacitive Design

• Rise Time: 1.0 ns without ringing

• Current Noise: < - 40 dB

• Thermal EMF: < 0.05 μV/°C typical

Voltage Coefficient: < 0.1 ppm/V

• Non-Inductive: < 0.08 μH

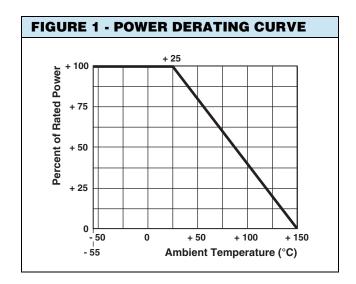
• Non Hot Spot Design

• Terminal Finishes available: Lead (Pb)-free

Tin/lead alloy

 Prototype Samples available from 48 h. Please contact foil@vishavpq.com

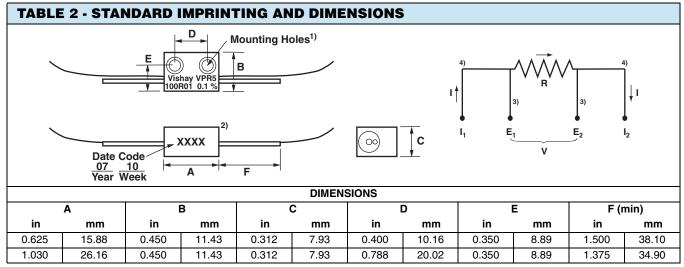
• For better performances, please contact us



^{*} Pb containing terminations are not RoHS compliant, exemptions may apply

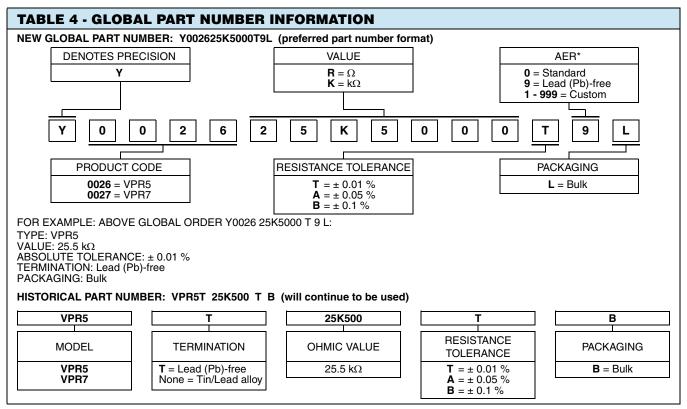
Vishay Foil Resistors





Notes

- 1. #4-40 F.H. Machine Screw (Not Included)
- 2. Anodized Aluminum Housing
- 3. #26 AWG, Teflon Coated, 4" min.
- 4. #20 AWG, Solder Coated Copper



Note

^{*} For non-standard requests, please contact Application Engineering.



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