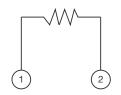




High Value, High Voltage Precision SIP Thin Film Resistor, Through Hole Network



SCHEMATIC



FEATURES

 High nominal precision resistors (value range 50K to 10M)



- Highly accurate resistance tolerance (up to ± 0.01 %)
- Conformal coating flame resistant (UL 94 V-0) rating
- Ultra low TCR (± 5 ppm/°C)
- High voltage
- Flame resistant (UL 94 V-0 rating)
- HVPS2 voltage rating up to 1800 V
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

Note

This datasheet provides information about parts that are RoHS-compliant and / or parts that are non RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details

APPLICATIONS

- Precise instrumentation (medical, test etc.)
- Precision amplifiers

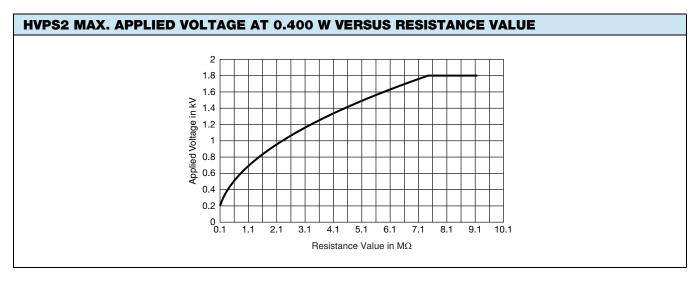
TEST	SPECIFICATIONS	CONDITIONS	
		CONDITIONS	
Material	Passivated nichrome	-	
Pin/Lead Number	2	-	
Resistance Range	50 000 Ω to 5000 k Ω (HVPS1)		
nesistance hange	100 000 Ω to 10 000 k Ω (HVPS2)	_	
TCR: Absolute	5 ppm/°C to 25 ppm/°C	-55 °C to +125 °C	
TCR: Tracking	-	-	
Tolerance: Absolute	± 0.01 % to ± 1.0 %	Maximum at +70 °C	
Tolerance: Ratio	-	-	
Danier Daties - Danieta -	125 mW (HVPS1)		
Power Rating: Resistor	400 mW (HVPS2)	-	
Power Rating: Package	-	-	
Stability: Absolute	ΔR ± 0.05 %	2000 h at +70 °C	
Stability: Ratio	-	-	
Voltage Coefficient	< 1.0 ppm/V	-	
Warding Valtage	250 V (HVPS1)		
Working Voltage	up to 1800 V (HVPS2) ⁽¹⁾	-	
Operating Temperature Range	-55 °C to +125 °C	-	
Storage Temperature Range	-	-	
Noise	< - 30 dB	-	
Thermal EMF	< 0.1 μV/°C	-	
Shelf Life Stability: Absolute	ΔR ± 0.01 %	1 year at +25 °C	
Shelf Life Stability: Ratio	-	-	

Note

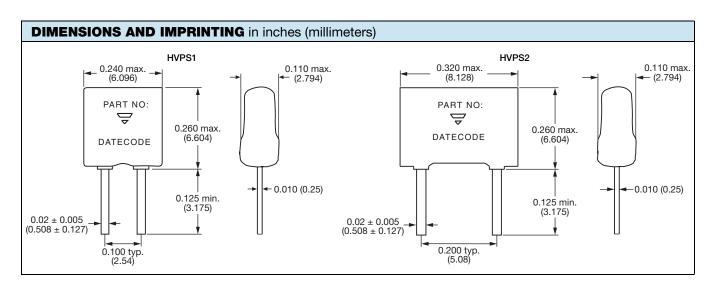
(1) See chart







HVPS2 VOLTAGE RATING BY VALUE		
WORKING VOLTAGE	RESISTANCE RANGE	
200	100K to 400K	
400	401K to 900K	
600	901K to 1.6M	
800	1.6M to 2.5M	
1000	2.5M to 3.6M	
1200	3.6M to 4.9M	
1400	4.9M to 6.4M	
1600	6.4M to 8.1M	
1800	8.1M to 10M	

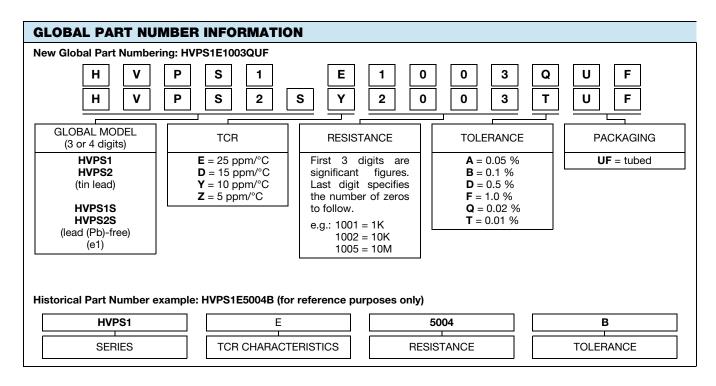






Vishay Dale Thin Film

MECHANICAL SPECIFICATIONS		
Resistive Element	Passivated nichrome	
Substrate Material	Alumina	
Body	Epoxy coated	
Terminals	Copper alloy	
Tin/Lead Option	Sn60 - Sn63	
Lead (Pb)-free Option	Sn96.5, Ag3.0, Cu0.5	
Tin/Lead and Lead (Pb)-free Finish	Hot solder dip	





Legal Disclaimer Notice

Vishay

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