

PRECISION BULK METAL® FOIL TECHNOLOGY

HTSM Series

200 °C Surface Mount Discrete Chip Resistors



RoHS
COMPLIANT

FEATURES

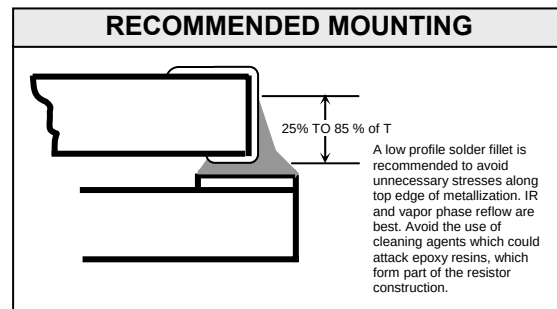
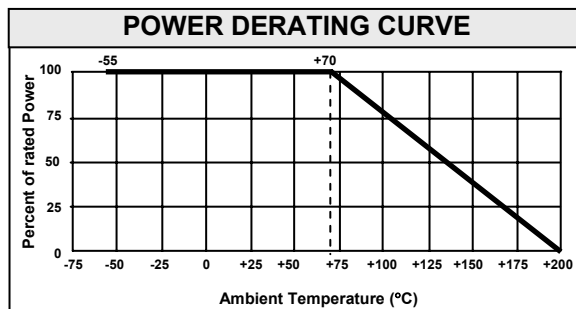
- TCR ± 0.2 ppm/°C typical
- Load Life Stability (200°C for 2000 hours): $\pm 0.15\%$
- Power Rating: 100 mW to 400 mW @ +70°C
- PCR (Power Coefficient of Resistance): 5 ppm @ rated power
- Resistance Range: 10 Ω to 100K Ω
- Tolerance: $\pm 0.01\%$ to 1.0%
- Operating Temperature -55 °C to 200 °C.

- Shelf Life Stability: 0.005%
- Low Current Noise: -40dB.
- Low Voltage Coefficient: <0.1ppm / V
- Non Inductive: <0.08 μ H
- Thermal EMF: < 0.05 μ V / °C
- Terminal Finishes Available:

Tin / Lead Alloy
Lead (Pb) Free



SPECIFICATIONS					
CHIP SIZE	RESISTANCE RANGE (Ω)	MAXIMUM POWER at 70 °C (W)	MAX VOLTAGE (Volts) $\leq \sqrt{W \times \Omega}$	TYPICAL TCR AND MAXIMUM SPREAD (ppm / °C) -55°C TO 125°C	AVAILABLE TOLERANCE (%)
0805	10R to 7K	0.100	Up to 27	For R≥ 250R ± 0.2 ± 1.8	0.01 TO 1.0
1206	10R to 20K	0.150	Up to 55		
1506	10R to 20K	0.200	Up to 63		
2010	10R to 55K	0.300	Up to 128		
2512	10R to 100K	0.400	Up to 200		
Contact TxCC for greater resistance values					



To order specify: Size, Resistor value, tolerance and termination type.

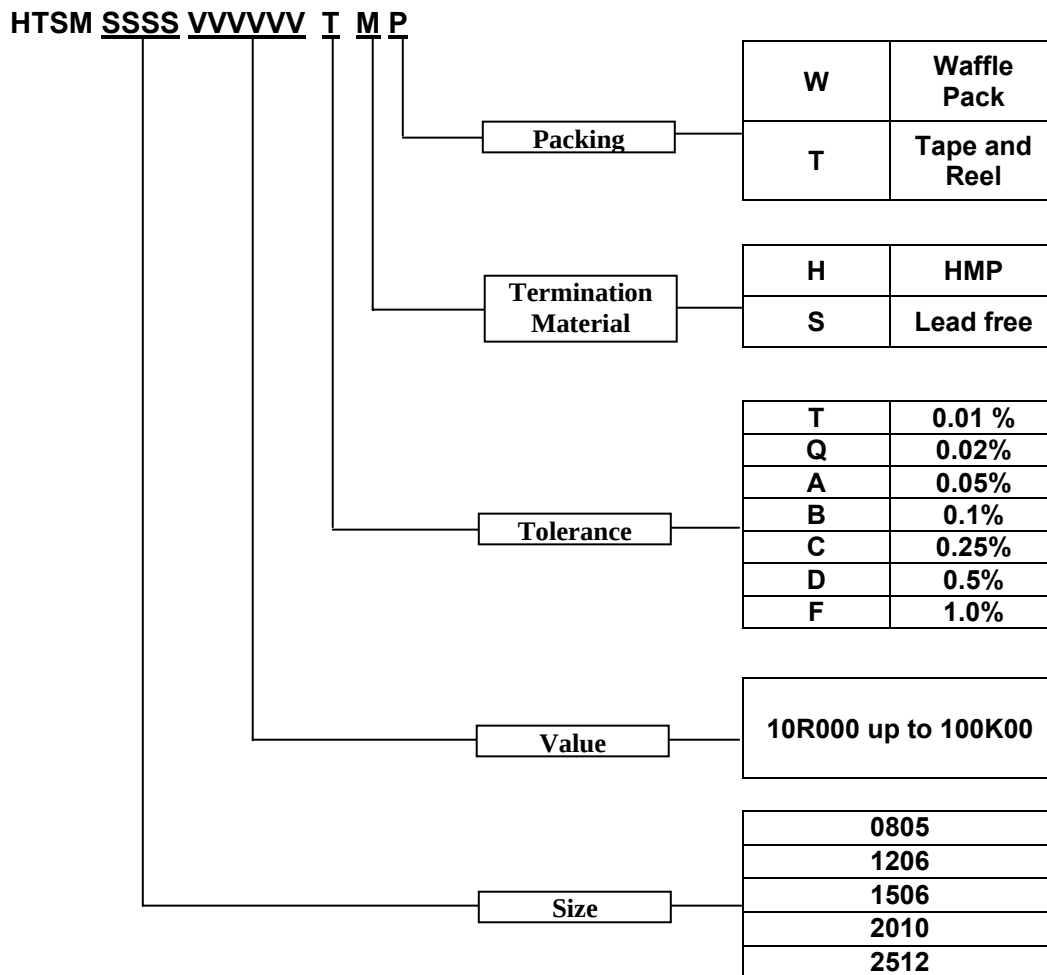
We can print the resistor value on the face of the resistor for easier identification. Just Ask!

DIMENSIONS AND LAND PATTERN in inches (millimeters)							
Bottom View for mounting				Recommended Land Pattern			
CHIP SIZE	L ± 0.005 (0.13)	W ± 0.005 (0.13)	THICKNESS MAXIMUM	D ± 0.005 (0.13)	Z*** MAXIMUM	G*** MINIMUM	X*** MAXIMUM
0805	0.080 (2.03)	0.050 (1.27)	0.025 (0.64)	0.015 (0.38)	0.122 (3.10)	0.028 (0.70)	0.050 (1.27)
1206	0.126 (3.2)	0.062 (1.57)	0.025 (0.64)	0.020 (0.50)	0.175 (4.40)	0.059 (1.50)	0.071 (1.80)
1506	0.150 (3.81)	0.062 (1.57)	0.025 (0.64)	0.020 (0.50)	0.199 (5.05)	0.083 (2.10)	0.071 (1.80)
2010	0.198 (5.03)	0.097 (2.48)	0.025 (0.64)	0.025 (0.84)	0.247 (6.27)	0.115 (2.92)	0.103 (2.63)
2512	0.249 (6.32)	0.127 (3.22)	0.025 (0.64)	0.032 (0.81)	0.291 (7.40)	0.150 (3.80)	0.127 (3.22)

*** Land pattern Dimensions are per IPC-782

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Example:

To order HTSM resistors, size 2010, with a resistance value of 1,002.5 ohms, tolerance 0.02%, with an HMP termination material, and taped and reeled, the ordering information would be:

HTSM 2010 1K0025 QHT