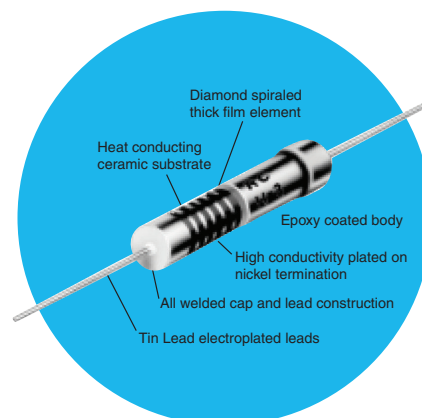


# Thick Film High Voltage/ High Reliability MIL-Approved Metal Glaze™ Resistors

## CMH Series

- 1/4 watt to 5 watt
- TCR of  $\pm 100$  ppm/°C
- Qualified to MIL-PRF-49462
- 330K ohm to 1G ohm range
- $\pm 1\%$ ,  $\pm 2\%$ , or  $\pm 5\%$  tolerance

# OBSOLETE



## Electrical Data

IRC Type	MIL Type <sup>3</sup>	Power Rating @ 70°C (watts) <sup>1</sup>	Voltage Rating (volts) <sup>2</sup>	Resistance Range (ohms) <sup>4</sup>	Tolerance (±%)	Maximum TCR (±ppm/°C) <sup>4</sup>	VCR (ppm/V)
CMH - 1/4	RHV30	1/4	750	330K - 100M	1, 2, 5	100	0 to -5
CMH - 1/2	RHV31	1/2	1,500	330K - 392M			
CMH - 1	RHV32	1	3,000	330K - 499M			
CMH - 2	RHV33	2	5,000	330K - 499M			
CMH - 3	RHV34	3	10,000	330K - 1000M			
CMH - 5	RHV35	5	20,000	330K - 1000M			

### Notes:

1. For power rating above 70C, see derating curve.
2. Voltage rating shown is the rated DC continuous working voltage or the sine-wave RMS absolute maximum voltage at commercial line frequency.
3. Marked per MIL-PRF-49462
4. Values greater than 100 meg and less than 500 meg,  $\pm 200$ ppm; values greater than or equal to 500 meg,  $\pm 500$ ppm.

## Environmental Data

Test Condition*	Maximum $\Delta R$ ( $\pm 3\sigma$ )	Typical $\Delta R$
Thermal Shock	$\pm 0.25\%$	$\pm 0.10\%$
Solder Effect	$\pm 0.15\%$	$\pm 0.05\%$
Terminal Strength	$\pm 0.20\%$	$\pm 0.10\%$
Moisture Resistance	$\pm 0.50\%$	$\pm 0.20\%$
Load Life (1000 Hours at 25°C)	$\pm 1.00\%$	$\pm 0.25\%$
Shelf Life (1 year at 25°C)	$\pm 0.10\%$	$\pm 0.03\%$
Low-Temperature Operation	$\pm 0.15\%$	$\pm 0.05\%$
Shock	$\pm 0.35\%$	$\pm 0.10\%$
Vibration	$\pm 0.35\%$	$\pm 0.10\%$
Dielectric Strength	$\pm 0.15\%$	$\pm 0.05\%$
Insulation Resistance at 500 VDC	$\pm 10^9 \Omega$ min	$5 \times 10^{12} \Omega$ typ

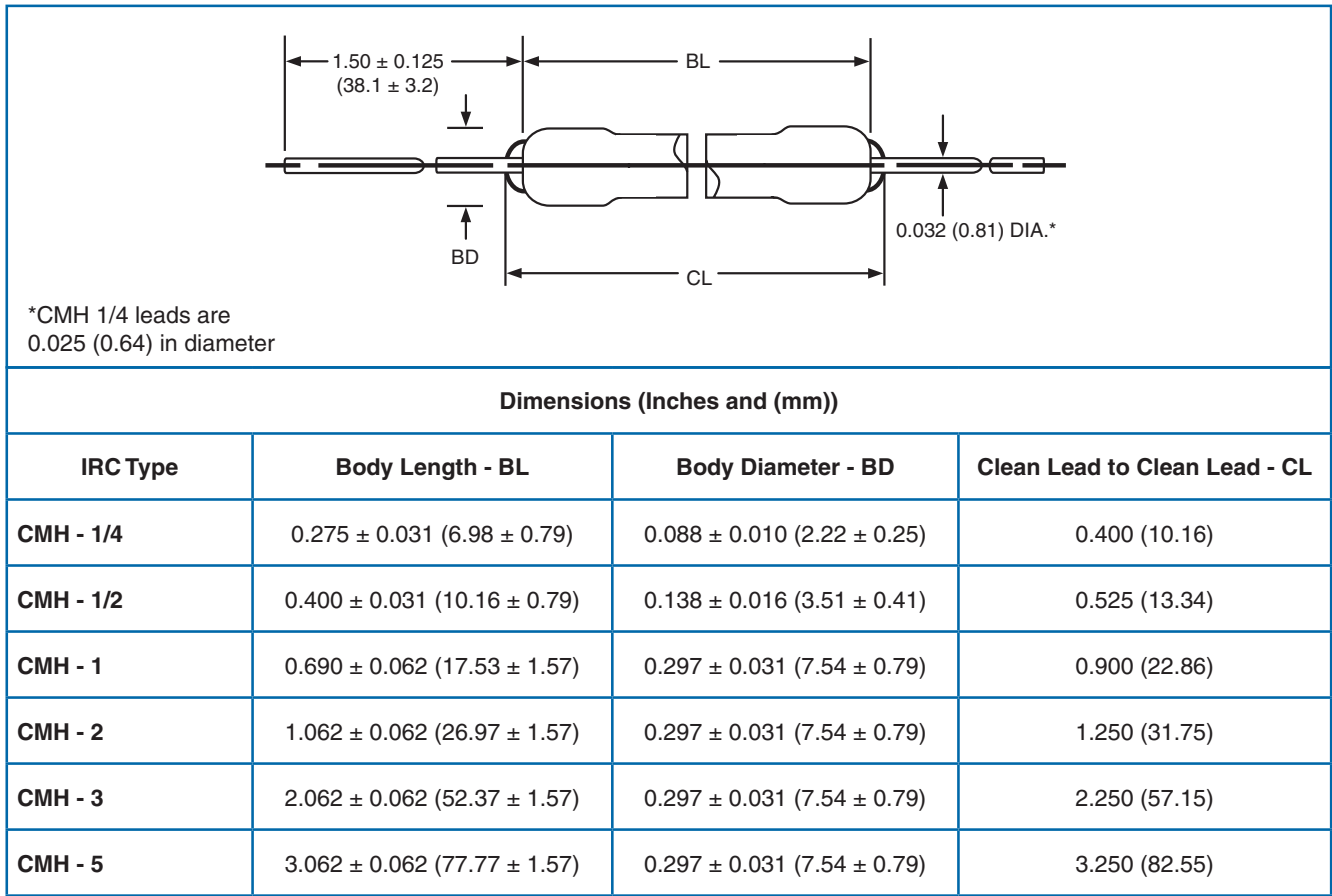
### Notes:

\*Test per MIL-PRF-49462 and MIL-STD-202

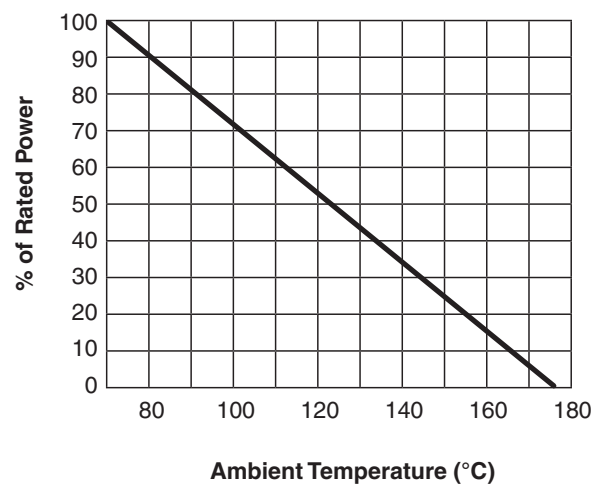
### General Note

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All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

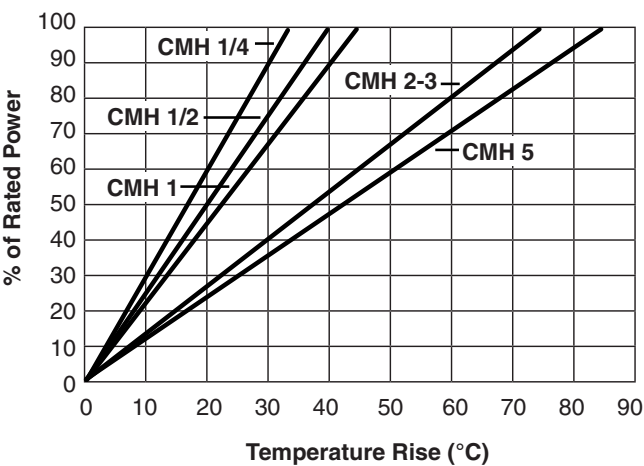
Physical Data



Power Derating Curve



Temperature Rise Chart



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## Ordering Data

Sample Part No.....	CMH 3	-	100	-	2206	-	F
IRC Type.....							
CMH 1/4, CMH 1/2, CMH 1, CMH 2, CMH 3, CMH 5							
Temperature Coefficient.....							
±100 ppm/°C							
Resistance.....							
(≥100Ω - First 3 significant digits plus 4th digit multiplier)							
Example: 100Ω = 1000; 1000Ω = 1001, 150,000Ω = 1503							
(>100Ω - "R" is used to designate decimal)							
Example: 51Ω = 51R0; 1Ω = 1R00; 0.25Ω = R250							
Tolerance.....							
F = ±1%							
G = ±2%							
J = ±5%							

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# Mouser Electronics

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[CMH1/4-100PPM/C-499K-1%](#)