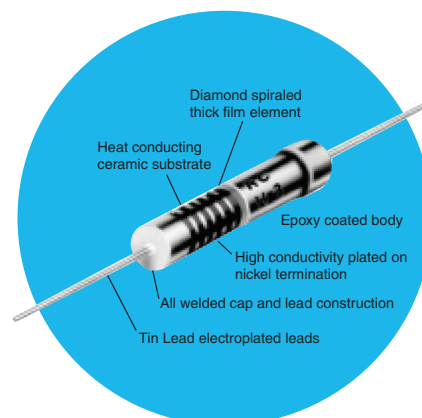


Thick Film High Voltage/ High Reliability MIL-Approved Metal Glaze™ Resistors

CMH Series

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



Electrical Data

IRC Type	MIL Type ³	Power Rating @ 70°C (watts) ¹	Voltage Rating (volts) ²	Resistance Range (ohms) ⁴	Tolerance (±%)	Maximum TCR (±ppm/°C) ⁴	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-R-49462
4. Values greater than 100 meg and less than 500 meg, ± 200 ppm; values greater than or equal to 500 meg, ± 500 ppm.

Environmental Data

Test Condition*	Maximum ΔR ($\pm 3\sigma$)	Typical ΔR
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:

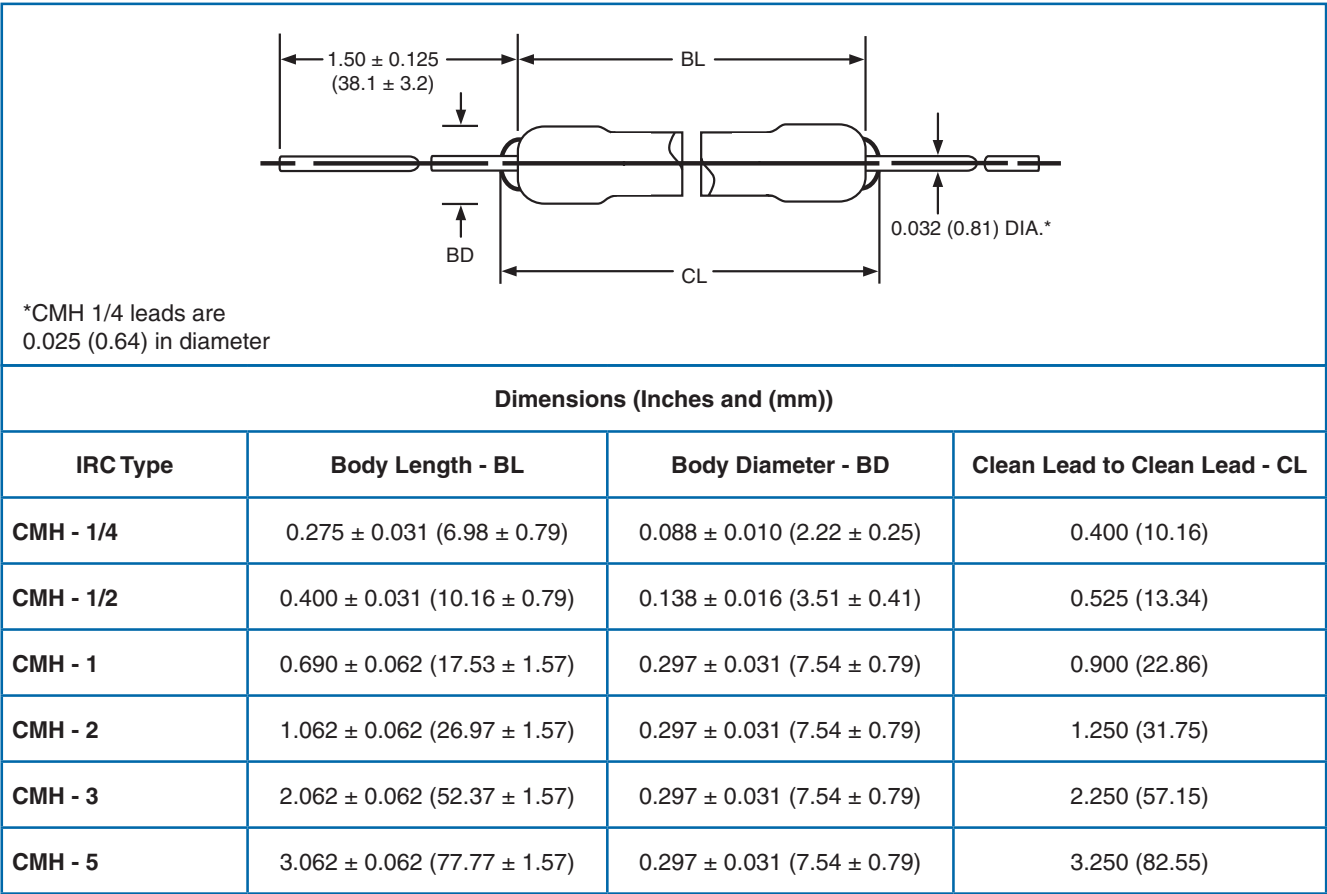
*Test per MIL-R-49462 and MIL-STD-202

General Note

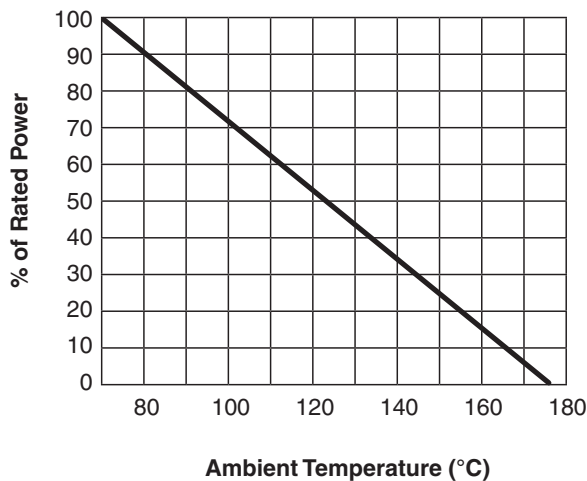
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CMH Series

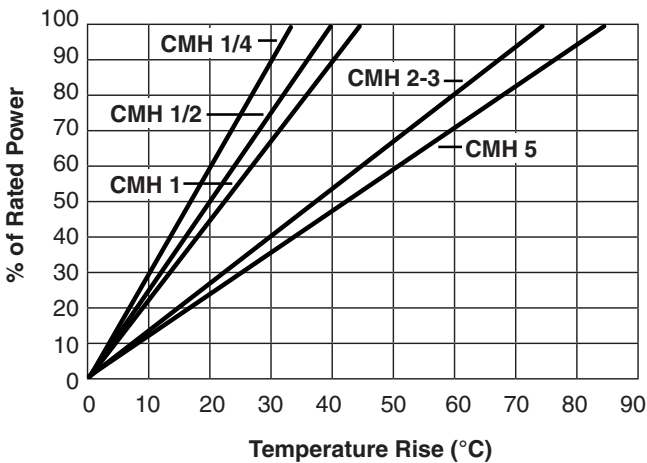
Physical Data



Power Derating Curve



Temperature Rise Chart



General Note

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CMH Series

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%

General Note

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Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TT Electronics:

[CMH1/4-100PPM/C-499K-1%](#) [M4946203AA20M5F](#) [M4946203AB25M5F](#) [M4946203AB270MJ](#) [M4946203AB39MJ](#)
[M4946203AE499MF](#) [M4946203AB48M7F](#) [M4946203AD24M3F](#) [M4946203AA56M0J](#) [M4946203AB15M0F](#)
[M4946203AC100MF](#) [M4946203AB49M9F](#) [CMH21001004J](#)