

POWER METAL FIXED RESISTORS



ROYALOHM

Features

- High Power, small dimension
- Stable performance against environment conditions
- Define Interruption behavior
- RoHs , REACH compliance
- PFOS & Halogen Free.
- PR series close equivalent

Application

- General purpose power application

PMR Series

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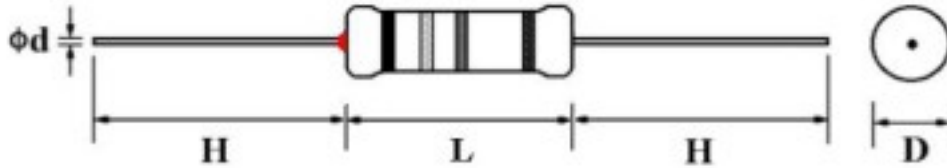


ISO / TS 16949

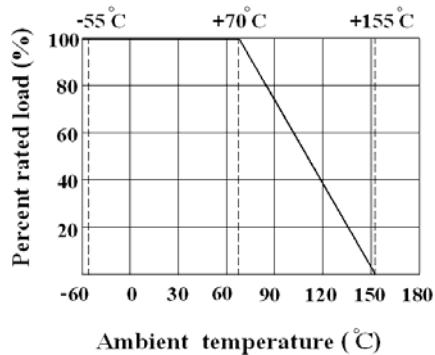
ISO 14001

POWER METAL FIXED RESISTOR

Structure



Derating Curve



Type	Max Working Voltage	Max overload Voltage	Dielectric Withstanding Voltage	Operating Temperature Range
PMR1WSSS	350V	400V	350V	-55°C ~ +155°C
PMR2WS	500V	600V	350V	-55°C ~ +155°C
PMR3WS	750V	800V	350V	-55°C ~ +155°C

Type	Power Rating	D (mm) Max	L (mm) Max	D (mm)	H (mm)	Resistance Range	TCR
PMR 1WSSS	R < 1Ω 0.6W	2.5	6.5	0.54±0.05	25±3.0	0.56 Ω ~ 1MΩ	0.56Ω~100KΩ ≤ ±350 PPM/°C
	R ≥ 1Ω 1W						101KΩ~470KΩ ≤ ±400 PPM/°C
							471KΩ~1MΩ ≤ ±800 PPM/°C
PMR 2WS	2W	4.0	11.0	0.75±0.05	25±3.0	3.9 Ω ~ 680KΩ	3.9Ω~100KΩ ≤ ±350 PPM/°C
							101KΩ~680KΩ ≤ ±400 PPM/°C
PMR 3WS	3W	5.5	16.0	0.75±0.05	25±3.0	12.1 Ω ~ 150KΩ	12Ω~100KΩ ≤ ±350 PPM/°C
							101KΩ~180KΩ ≤ ±400 PPM/°C

Characteristic

Test Item	Standard
Pulse overload	$\Delta R/R \leq \pm(5.0\%+0.05\Omega)$
Short time overload	$\Delta R/R \leq \pm(2.0\%+0.05\Omega)$
Solder ability	Min. 95% coverage
Resistance to soldering heat	$\Delta R/R \leq \pm(1.0\%+0.05\Omega)$
Temperature cycling	$\Delta R/R \leq \pm(2.0\%+0.05\Omega)$
Terminal strength	No evidence of mechanical damage

Test Item	Standard
Load Life in humidity	Less than 100KΩ $\Delta R/R \leq \pm 5.0\%$ 100KΩ or more $\Delta R/R \leq \pm 10.0\%$
Load Life	Less than 100KΩ $\Delta R/R \pm 5.0\%$ 100KΩ or more $\Delta R/R \leq \pm 10.0\%$
Resistance to solvent	No deterioration of protective coating and markings
Dielectric withstanding voltage	No evidence of flashover, mechanical damage, arcing or insulation breakdown