

# 5 Watt Metal Film Fixed Resistors

**multicomp** PRO

**RoHS  
Compliant**



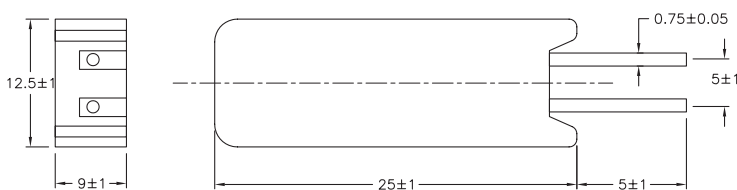
## Performance Specification

- Self extinguishing
- Excellent flame and moisture resistance
- Extremely small sturdy and mechanical safe
- Product Type: Power Film Resistor
- Power Rating: 5 Watts
- Resistance Tolerance:  $\pm 5\%$

## Performance Specification

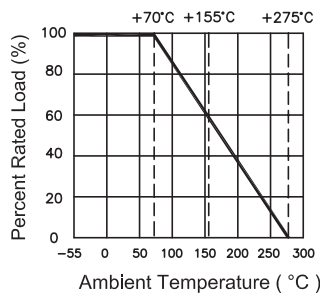
Temperature coefficient	: $<20\Omega$ : $\pm 400\text{PPM}/^\circ\text{C}$ ; $\geq 20$ : $\pm 350\text{PPM}/^\circ\text{C}$
Short-time overload	: $\Delta R/R < \pm(5.0\% + 0.05\Omega)$ , with no evidence of mechanical damage.
Dielectric withstanding voltage	: No evidence of flashover, mechanical damage, arcing or insulation breakdown.
Terminal strength	: No evidence of mechanical damage.
Solderability	: Min. 95% coverage
Temperature cycling	: $\Delta R/R \leq \pm(2.0\% + 0.05\Omega)$ , with no evidence of mechanical damage.
Humidity (Steady State)	: $\Delta R/R \leq \pm(5.0\% + 0.05\Omega)$ , with no evidence of mechanical damage.
Load life in humidity	: For Wire-wound range, the $\Delta R/R$ is $\pm 5\%$ For Power film range, $<100\text{k}\Omega$ , the $\Delta R/R$ is $\pm 5\%$ For Power film range, $\geq 100\text{k}\Omega$ , the $\Delta R/R$ is $\pm 10\%$
Load Life	: For Wire-wound range, the $\Delta R/R$ is $\pm 5\%$ For Power film range, $<100\text{k}\Omega$ , the $\Delta R/R$ is $\pm 5\%$ For Power film range, $\geq 100\text{k}\Omega$ , the $\Delta R/R$ is $\pm 10\%$
Resistance to solderability heat	: $\Delta R/R \pm(1.0\% + 0.05\Omega)$ with no evidence of mechanical damage.

## Diagram

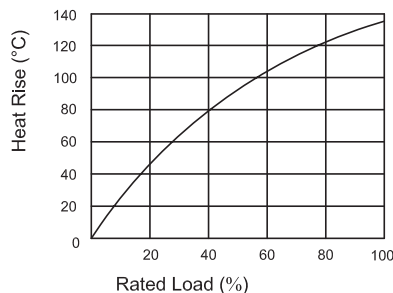


Dimensions : Millimetres

## Derating Curve



## Heat Rise Chart



Newark.com/multicomp-pro  
Farnell.com/multicomp-pro  
Element14.com/multicomp-pro

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## Part Number Table

Description	Part Number
Metal Film Resistor, 1k $\Omega$ , 5W, 5%, Radial Lead	MCPRM05WJP102B00
Metal Film Resistor, 10k $\Omega$ , 5W, 5%, Radial Lead	MCPRM05WJP103B00
Metal Film Resistor, 100k $\Omega$ , 5W, 5%, Radial Lead	MCPRM05WJP104B00
Metal Film Resistor, 110 $\Omega$ , 5W, 5%, Radial Lead	MCPRM05WJP111B00
Metal Film Resistor, 120 $\Omega$ , 5W, 5%, Radial Lead	MCPRM05WJP121B00
Metal Film Resistor, 130 $\Omega$ , 5W, 5%, Radial Lead	MCPRM05WJP131B00
Metal Film Resistor, 150 $\Omega$ , 5W, 5%, Radial Lead	MCPRM05WJP151B00
Metal Film Resistor, 1.5k $\Omega$ , 5W, 5%, Radial Lead	MCPRM05WJP152B00
Metal Film Resistor, 15k $\Omega$ , 5W, 5%, Radial Lead	MCPRM05WJP153B00
Metal Film Resistor, 200 $\Omega$ , 5W, 5%, Radial Lead	MCPRM05WJP201B00
Metal Film Resistor, 2k $\Omega$ , 5W, 5%, Radial Lead	MCPRM05WJP202B00
Metal Film Resistor, 20k $\Omega$ , 5W, 5%, Radial Lead	MCPRM05WJP203B00
Metal Film Resistor, 24k $\Omega$ , 5W, 5%, Radial Lead	MCPRM05WJP243B00
Metal Film Resistor, 25k $\Omega$ , 5W, 5%, Radial Lead	MCPRM05WJP253B00
Metal Film Resistor, 270 $\Omega$ , 5W, 5%, Radial Lead	MCPRM05WJP271B00
Metal Film Resistor, 2.7k $\Omega$ , 5W, 5%, Radial Lead	MCPRM05WJP272B00
Metal Film Resistor, 300 $\Omega$ , 5W, 5%, Radial Lead	MCPRM05WJP301B00
Metal Film Resistor, 3k $\Omega$ , 5W, 5%, Radial Lead	MCPRM05WJP302B00
Metal Film Resistor, 330 $\Omega$ , 5W, 5%, Radial Lead	MCPRM05WJP331B00
Metal Film Resistor, 3.3k $\Omega$ , 5W, 5%, Radial Lead	MCPRM05WJP332B00
Metal Film Resistor, 33k $\Omega$ , 5W, 5%, Radial Lead	MCPRM05WJP333B00
Metal Film Resistor, 36k $\Omega$ , 5W, 5%, Radial Lead	MCPRM05WJP363B00
Metal Film Resistor, 390 $\Omega$ , 5W, 5%, Radial Lead	MCPRM05WJP391B00
Metal Film Resistor, 3.9k $\Omega$ , 5W, 5%, Radial Lead	MCPRM05WJP392B00
Metal Film Resistor, 39k $\Omega$ , 5W, 5%, Radial Lead	MCPRM05WJP393B00
Metal Film Resistor, 430 $\Omega$ , 5W, 5%, Radial Lead	MCPRM05WJP431B00
Metal Film Resistor, 43k $\Omega$ , 5W, 5%, Radial Lead	MCPRM05WJP433B00

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