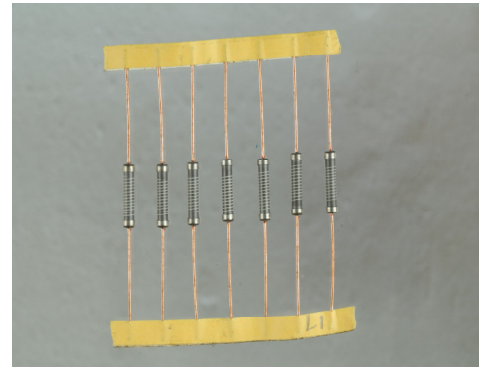


LAMP RESISTORS

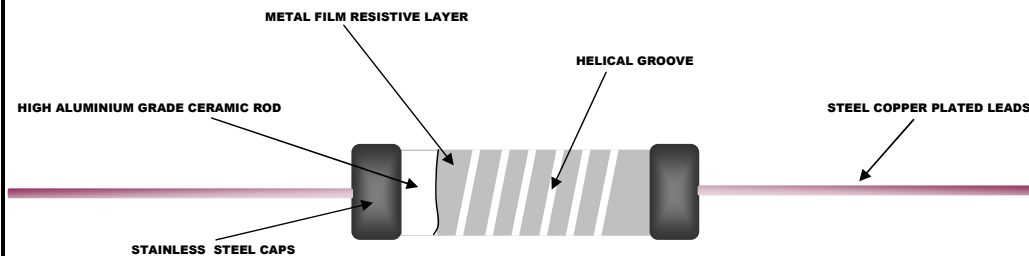
Series : MPR02L & MPR2.5L

Features:

- Metal film technology
- High power in small package
- High stability, reliability during lamp ignitions
- Suitable for high temperature operations
- Compliant to **RoHS** directive 2002/95/EC



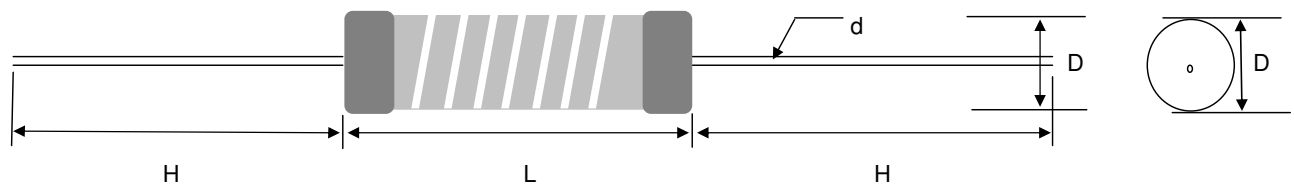
Construction :



Technical specification:

DESCRIPTION	SERIES	
	MPR02L	MPR2.5L
Resistance range	2K Ω ~ 70K Ω	
Resistance tolerance	$\pm 5\%$, E24 series	
Temperature coefficient	± 250 ppm/ $^{\circ}\text{C}$	
Maximum dissipation @ 70 $^{\circ}\text{C}$	2W	2.5W
Maximum permissible voltage	200 V	250 V
Pull test	> 4kg	> 2.3kg
Stability, R max.	$\Delta R \pm (5\% + 0.05\Omega)$ $\Delta R \pm (5\% + 0.05\Omega)$ $\Delta R \pm (2\% + 0.05\Omega)$	
Load		
Robustness of termination		
Short time overload		

Dimensions :



Physical Data:

1.0 SPECIFICATION :

TYPE	WATT. @ 70°C	TOL.	TCR	DIMENSIONS (mm)				RESISTANCE	MAX. WORKING	MAX. OVERLOAD
			PPM/°C	L	D	d ± 0.05	H	RANGE	VOLTAGE	VOLTAGE
MPR02L	2W	±5%	±250	8.5 ± 0.5	3.7 max.	0.8	25 min	2KΩ ~ 70KΩ	500V	1000 V
MPR2.5L	2.5W	±5%	±250	15.5 ± 0.5	3.7 max.	0.8	25 min	2KΩ ~ 70KΩ	750V	1500 V

Note : Working voltage is $\sqrt{P \times R}$ where P is power & R is resistance in Ohms

Material Specifications:

Element : Vacuum-deposited nickel-chrome alloy

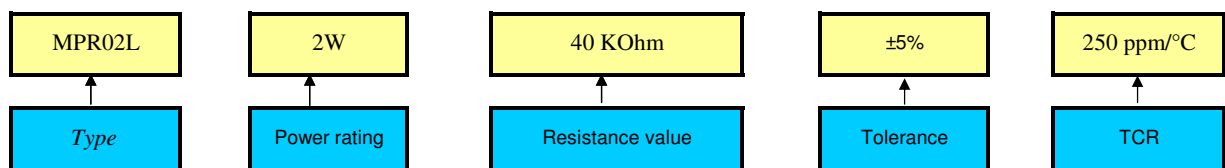
Core : Fire cleaned high purity ceramic

End caps : Stainless Steel endcaps

Lead Terminals : Steel copper plated leads

Part Numbering Information:

Part Number : Type number, power rating, resistance value, tolerance, tcr.



Examples: PART NO. : MPR02L, 2W, 40KOhm, ±5%, 250ppm/°C

Packing Information:

TYPE	Pcs Per Box	Pcs Per Real
	Brown box	
MPR02L	2,000	5000
MPR2.5L	1,000	2500

MFR reserves the right to make changes in product specification without notice or liability.

All information is subject to MFR's own data & is considered accurate at the time of going to print.

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Performance Data (Procedure & Requirements):

TEST	PROCEDURE	REQUIREMENTS
Robustness Of Termination		
1. Tensile Test	Load 10 N for 10 sec.	No visual damage
2. Bend Test	Load 5 N 90°, 180°, 90°	No visual damage
3. Torsion Test	3 X 360° in opposite directions	No visual damage $\Delta R/R$ max.: $\pm(0.5\% + 0.05 \Omega)$
Pull Test		
Pull force in horizontal directions until the product breakdown occur	MPR02L Type MPR2.5L Type	$\geq 4\text{kgf}$ $\geq 2.3\text{kgf}$
Short Time Overload	2.5 X Rated voltage for 5 sec. @ 25°C	$\Delta R/R$ max.: $\pm(2\% + 0.05 \Omega)$
Endurance @ 70°C	1000 hrs. load with Pn (power nominal) 1.5 hr. ON & 0.5 hr. OFF	No visual damage $\Delta R/R$ max.: $\pm(5\% + 0.05 \Omega)$
Temperature Coefficient	At 25/-55/25 °C & 25/150/25 °C	Within $\pm 250\text{ppm}/^\circ\text{C}$

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