

Metal Film Precision Resistors - Axial Leaded

multicomp PRO

**RoHS
Compliant**

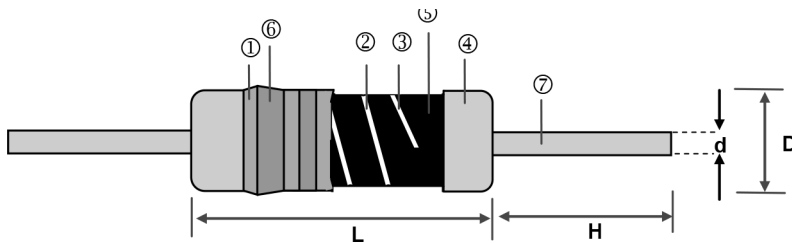


Features

- Excellent overall stability
- High power rating up to 3 Watts
- Excellent ohmic contact

Applications

- Telecommunication
- Medical Equipment

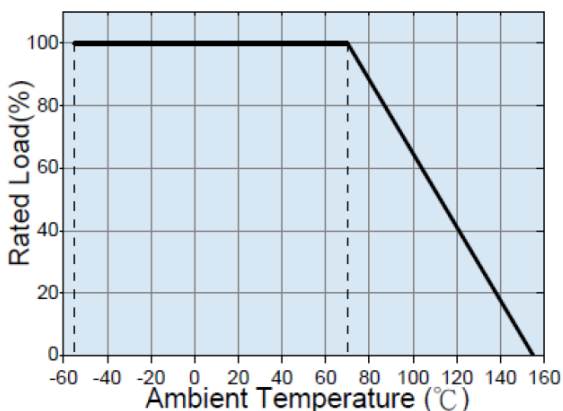


1	Insulation Coating	5	Resistor Layer
2	Trimming Line	6	Marking
3	Ceramic Core	7	Lead Wire
4	Electrode Cap		

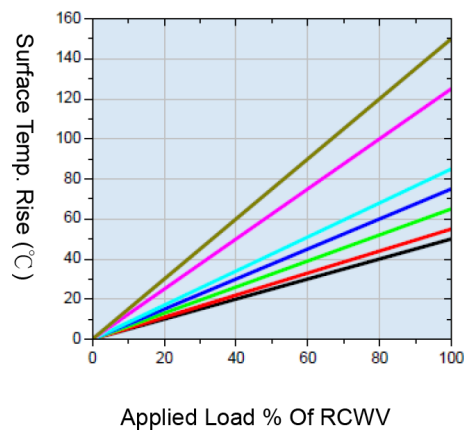
Dimensions

L	D	H	D	Weight (g) (1000pcs)
9.0±0.5	3.2±0.5	26±2	0.65±0.03	350

Derating Curve



Hot-Spot Temperature



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Standard Electrical Specifications

Item Type	Power Rating at 70°C	Operating Temp. Range	Max. Operating Voltage	Max. Overload Voltage	Dielectric Withstanding Voltage	Resistance Range	TCR (PPM/°C)
						±1%	
0932	0932 1/2W	-55°C to +155°C	350V	500V	500V	0.1Ω-9.1MΩ	±100

Operating Voltage= $\sqrt{P \cdot R}$ or Max. operating voltage listed above, whichever is lower.

Overload Voltage= $2.5 \cdot \sqrt{P \cdot R}$ or Max. overload voltage listed above, whichever is lower.

Environmental Characteristics

Item	Requirement	Test Method
Short Time Overload	±(0.25%+0.05Ω)	IEC-60115-1 4.13 2.5 times RCWV for 5 seconds
Insulation Resistance	>10000MΩ	IEC-60115-1 4.6 In V-Block
Endurance	±(1.5%+0.05Ω)	IEC-60115-1 4.25 70±2°C, RCWV for 1000 hrs with 1.5 hrs "ON" and 0.5 hrs "OFF"
Damp Heat with Load	±(1.5%+0.05Ω)	IEC-60115-1 4.24 40±2°C, 90~95% R.H., RCWV for 1000 hrs with 1.5 hrs "ON" and 0.5 hrs "OFF"
Solderability	95% min. Coverage	IEC-60115-1 4.17 260±5°C for 2±0.5 seconds
Voltage Proof	By Type	IEC-60115-1 4.7 In V-Block for 60 seconds
Temperature Coefficient	By Type	IEC-60115-1 4.8 Resistance value at room temperature and room Temperature+125°C
Pulse Overload	±(0.75%+0.05Ω)	IEC-60115-1 4.39 4 times RCWV for 10000 cycles with 1sec "ON" and 25 sec "OFF"
Resistance To Solvent	No deterioration of coatings and markings	IEC-60115-1 4.30 IPA for 5±0.5 min. with ultrasonic
Terminal Strength	Tensile: ≥ 2.5kg	IEC-60115-1 4.16 Direct Load for 10 sec. In the direction off the terminal leads
Resistance to Soldering Heat	0318: ±(0.75%+0.05Ω) 0623&0932: ±(0.5%+0.05Ω) 1145&1550: ±(0.25%+0.05Ω)	IEC-60115-1 4.18 The solder iron heated to 260°C±5°C and applied to the termination for a duration of 10±1 seconds
Temperature Cycling	±(0.75%+0.05Ω)	IEC-60115-1 4.19 -55°C/155°C with 5 cycles. (30min for both low and high temperature, transfer time less 30s)

RCWV(Rated continuous working voltage)= $\sqrt{P \cdot R}$ or Max. Operating voltage whichever is lower

Storage Temperature: 15°C to 28°C; Humidity < 80%RH

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Part Number Table

Description	Part Number
Axial Leaded Metal Film Precision Resistor, 1/2W, 1R, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006331
Axial Leaded Metal Film Precision Resistor, 1/2W, 10R, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006332
Axial Leaded Metal Film Precision Resistor, 1/2W, 12R, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006333
Axial Leaded Metal Film Precision Resistor, 1/2W, 91R, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006334
Axial Leaded Metal Film Precision Resistor, 1/2W, 100R, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006335
Axial Leaded Metal Film Precision Resistor, 1/2W, 1K, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006336
Axial Leaded Metal Film Precision Resistor, 1/2W, 10K, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006337
Axial Leaded Metal Film Precision Resistor, 1/2W, 100K, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006338
Axial Leaded Metal Film Precision Resistor, 1/2W, 1M, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006339
Axial Leaded Metal Film Precision Resistor, 1/2W, 10M, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006340
Axial Leaded Metal Film Precision Resistor, 1/2W, 11K, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006341
Axial Leaded Metal Film Precision Resistor, 1/2W, 110K, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006342
Axial Leaded Metal Film Precision Resistor, 1/2W, 15K, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006343
Axial Leaded Metal Film Precision Resistor, 1/2W, 16K, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006344
Axial Leaded Metal Film Precision Resistor, 1/2W, 160K, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006345
Axial Leaded Metal Film Precision Resistor, 1/2W, 180R, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006346
Axial Leaded Metal Film Precision Resistor, 1/2W, 18K, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006347
Axial Leaded Metal Film Precision Resistor, 1/2W, 180K, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006348
Axial Leaded Metal Film Precision Resistor, 1/2W, 200R, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006349
Axial Leaded Metal Film Precision Resistor, 1/2W, 2K, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006350
Axial Leaded Metal Film Precision Resistor, 1/2W, 20K, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006351
Axial Leaded Metal Film Precision Resistor, 1/2W, 200K, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006352
Axial Leaded Metal Film Precision Resistor, 1/2W, 2M, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006353
Axial Leaded Metal Film Precision Resistor, 1/2W, 220R, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006354
Axial Leaded Metal Film Precision Resistor, 1/2W, 2.2K, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006355
Axial Leaded Metal Film Precision Resistor, 1/2W, 22K, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006356
Axial Leaded Metal Film Precision Resistor, 1/2W, 220K, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006357
Axial Leaded Metal Film Precision Resistor, 1/2W, 2.2M, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006358
Axial Leaded Metal Film Precision Resistor, 1/2W, 2.4K, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006359
Axial Leaded Metal Film Precision Resistor, 1/2W, 300R, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006360
Axial Leaded Metal Film Precision Resistor, 1/2W, 3K, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006361
Axial Leaded Metal Film Precision Resistor, 1/2W, 30K, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006362
Axial Leaded Metal Film Precision Resistor, 1/2W, 300K, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006363
Axial Leaded Metal Film Precision Resistor, 1/2W, 3M, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006364
Axial Leaded Metal Film Precision Resistor, 1/2W, 330R, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006365
Axial Leaded Metal Film Precision Resistor, 1/2W, 3.3K, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006366
Axial Leaded Metal Film Precision Resistor, 1/2W, 33K, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006367
Axial Leaded Metal Film Precision Resistor, 1/2W, 330K, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006368
Axial Leaded Metal Film Precision Resistor, 1/2W, 3.3M, $\pm 1\%$, $\pm 100\text{PPM}/^\circ\text{C}$	MP006369

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Description	Part Number
Axial Leaded Metal Film Precision Resistor, 1/2W, 390R, ± 1%, ± 100PPM/°C	MP006370
Axial Leaded Metal Film Precision Resistor, 1/2W, 3.9K, ± 1%, ± 100PPM/°C	MP006371
Axial Leaded Metal Film Precision Resistor, 1/2W, 39K, ± 1%, ± 100PPM/°C	MP006372
Axial Leaded Metal Film Precision Resistor, 1/2W, 390K, ± 1%, ± 100PPM/°C	MP006373
Axial Leaded Metal Film Precision Resistor, 1/2W, 3.9M, ± 1%, ± 100PPM/°C	MP006374
Axial Leaded Metal Film Precision Resistor, 1/2W, 430R, ± 1%, ± 100PPM/°C	MP006375
Axial Leaded Metal Film Precision Resistor, 1/2W, 4.3K, ± 1%, ± 100PPM/°C	MP006376
Axial Leaded Metal Film Precision Resistor, 1/2W, 43K, ± 1%, ± 100PPM/°C	MP006377
Axial Leaded Metal Film Precision Resistor, 1/2W, 430K, ± 1%, ± 100PPM/°C	MP006378
Axial Leaded Metal Film Precision Resistor, 1/2W, 4.3M, ± 1%, ± 100PPM/°C	MP006379
Axial Leaded Metal Film Precision Resistor, 1/2W, 470R, ± 1%, ± 100PPM/°C	MP006380
Axial Leaded Metal Film Precision Resistor, 1/2W, 4.7K, ± 1%, ± 100PPM/°C	MP006381
Axial Leaded Metal Film Precision Resistor, 1/2W, 47K, ± 1%, ± 100PPM/°C	MP006382
Axial Leaded Metal Film Precision Resistor, 1/2W, 470K, ± 1%, ± 100PPM/°C	MP006383
Axial Leaded Metal Film Precision Resistor, 1/2W, 4.7M, ± 1%, ± 100PPM/°C	MP006384
Axial Leaded Metal Film Precision Resistor, 1/2W, 510R, ± 1%, ± 100PPM/°C	MP006385
Axial Leaded Metal Film Precision Resistor, 1/2W, 5.1K, ± 1%, ± 100PPM/°C	MP006386
Axial Leaded Metal Film Precision Resistor, 1/2W, 51K, ± 1%, ± 100PPM/°C	MP006387
Axial Leaded Metal Film Precision Resistor, 1/2W, 5.6K, ± 1%, ± 100PPM/°C	MP006388
Axial Leaded Metal Film Precision Resistor, 1/2W, 56K, ± 1%, ± 100PPM/°C	MP006389
Axial Leaded Metal Film Precision Resistor, 1/2W, 560K, ± 1%, ± 100PPM/°C	MP006390
Axial Leaded Metal Film Precision Resistor, 1/2W, 5.6M, ± 1%, ± 100PPM/°C	MP006391
Axial Leaded Metal Film Precision Resistor, 1/2W, 620R, ± 1%, ± 100PPM/°C	MP006392
Axial Leaded Metal Film Precision Resistor, 1/2W, 62K, ± 1%, ± 100PPM/°C	MP006393
Axial Leaded Metal Film Precision Resistor, 1/2W, 620K, ± 1%, ± 100PPM/°C	MP006394
Axial Leaded Metal Film Precision Resistor, 1/2W, 680R, ± 1%, ± 100PPM/°C	MP006395
Axial Leaded Metal Film Precision Resistor, 1/2W, 820R, ± 1%, ± 100PPM/°C	MP006396
Axial Leaded Metal Film Precision Resistor, 1/2W, 910R, ± 1%, ± 100PPM/°C	MP006397
Axial Leaded Metal Film Precision Resistor, 1/2W, 9.1K, ± 1%, ± 100PPM/°C	MP006398
Axial Leaded Metal Film Precision Resistor, 1/2W, 91K, ± 1%, ± 100PPM/°C	MP006399
Axial Leaded Metal Film Precision Resistor, 1/2W, 910K, ± 1%, ± 100PPM/°C	MP006400
Axial Leaded Metal Film Precision Resistor, 1/2W, 9.1M, ± 1%, ± 100PPM/°C	MP006401
Axial Leaded Metal Film Precision Resistor, 1/2W, 0.1R, ± 1%, ± 100PPM/°C	MP006402
Axial Leaded Metal Film Precision Resistor, 1/2W, 0.2R, ± 1%, ± 100PPM/°C	MP006403
Axial Leaded Metal Film Precision Resistor, 1/2W, 0.3R, ± 1%, ± 100PPM/°C	MP006404
Axial Leaded Metal Film Precision Resistor, 1/2W, 0.91R, ± 1%, ± 100PPM/°C	MP006405

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