

Features

- Excellent Long-Time stability
- High surge / overload capability
- Controlled temperature coefficient
- Resistance standard tolerance: ±2% and ±5%
- · Electrical and mechanical stability and high reliability

Applications

Telecommunication

RoHS

Compliant

Medical Equipment



Dimensions

L	D	н	D	Weight (g) (1000pcs)
11.5±1.0	4.5±0.5	35±2.0	0.78±0.03	760

Derating Curve



Hot-Spot Temperature



Applied Load % Of RCWV



Standard Electrical Specifications

Item	Power Rating	Operating	Max.	Max.	Dielectric	Resistance Range		TCR
Туре	at 70°C	Temp. Range		Overload Voltage	Withstanding Voltage	±2%	±5%	(PPM/°C)
1145	1W	-55°C to +235°C	500V	600V	500V	10Ω to 9.1MΩ	1Ω to 3Ω	±200

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

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

Resistor body colour: Standard Power Rating: Grey

High Power Rating : Grey or Pink are available

Environmental Characteristics

Item	Requirement	Test Method
Short Time Overload	±(0.5%+0.05Ω)	IEC-60115-1 4.13 2.5 times RCWV for 5 seconds
Insulation Resistance	>10000MΩ	JIS-C-5202 5.6 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 3±0.5 seconds
Voltage Proof	Ву Туре	IEC-60115-1 4.7 In V-Block for 60 seconds
Temperature Coefficient	Ву Туре	IEC-60115-1 4.8 Resistance value at room temperature and room temperature+125°C
Pulse Overload	±(1%+0.05Ω)	IEC-60115-1 4.39 4 times RCWV for 10000 cycles with 1second "ON" and 25 seconds "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 seconds In the direction off the terminal leads

RCWV(Rated continuous working voltage)= $\sqrt{(P^*R)}$ or Max. Operating voltage whichever is lower Storage Temperature: 15°C to 28°C; Humidity < 80%RH



Part Number Table

Description	Part Number
Axial Leaded Metal Oxide Film Resistor, 1W, 10R, ± 2%, ± 200PPM/°C	MP006406
Axial Leaded Metal Oxide Film Resistor, 1W, 20R, ± 2%, ± 200PPM/°C	MP006407
Axial Leaded Metal Oxide Film Resistor, 1W, 100R, ± 2%, ± 200PPM/°C	MP006408
Axial Leaded Metal Oxide Film Resistor, 1W, 1K , ± 2%, ± 200PPM/°C	MP006409
Axial Leaded Metal Oxide Film Resistor, 1W, 10K , ± 2%, ± 200PPM/°C	MP006410
Axial Leaded Metal Oxide Film Resistor, 1W, 100K , ± 2%, ± 200PPM/°C	MP006411
Axial Leaded Metal Oxide Film Resistor, 1W, 1M, ± 2%, ± 200PPM/°C	MP006412
Axial Leaded Metal Oxide Film Resistor, 1W, 1M, ± 2%, ± 200PPM/°C	MP006413
Axial Leaded Metal Oxide Film Resistor, 1W, 110R, ± 2%, ± 200PPM/°C	MP006414
Axial Leaded Metal Oxide Film Resistor, 1W, 1.1K , ± 2%, ± 200PPM/°C	MP006415
Axial Leaded Metal Oxide Film Resistor, 1W, 11K , ± 2%, ± 200PPM/°C	MP006416
Axial Leaded Metal Oxide Film Resistor, 1W, 110K , ± 2%, ± 200PPM/°C	MP006417
Axial Leaded Metal Oxide Film Resistor, 1W, 1.1M, ± 2%, ± 200PPM/°C	MP006418
Axial Leaded Metal Oxide Film Resistor, 1W, 120R, ± 2%, ± 200PPM/°C	MP006419
Axial Leaded Metal Oxide Film Resistor, 1W, 1.2K , ± 2%, ± 200PPM/°C	MP006420
Axial Leaded Metal Oxide Film Resistor, 1W, 12K , ± 2%, ± 200PPM/°C	MP006421
Axial Leaded Metal Oxide Film Resistor, 1W, 120K , ± 2%, ± 200PPM/°C	MP006422
Axial Leaded Metal Oxide Film Resistor, 1W, 150R, ± 2%, ± 200PPM/°C	MP006423
Axial Leaded Metal Oxide Film Resistor, 1W, 1.5K , ± 2%, ± 200PPM/°C	MP006424
Axial Leaded Metal Oxide Film Resistor, 1W, 15K , ± 2%, ± 200PPM/°C	MP006425
Axial Leaded Metal Oxide Film Resistor, 1W, 150K , ± 2%, ± 200PPM/°C	MP006426
Axial Leaded Metal Oxide Film Resistor, 1W, 1.5M, ± 2%, ± 200PPM/°C	MP006427
Axial Leaded Metal Oxide Film Resistor, 1W, 200R, ± 2%, ± 200PPM/°C	MP006428
Axial Leaded Metal Oxide Film Resistor, 1W, 2K , ± 2%, ± 200PPM/°C	MP006429
Axial Leaded Metal Oxide Film Resistor, 1W, 20K , ± 2%, ± 200PPM/°C	MP006430
Axial Leaded Metal Oxide Film Resistor, 1W, 200K , ± 2%, ± 200PPM/°C	MP006431
Axial Leaded Metal Oxide Film Resistor, 1W, 2M, ± 2%, ± 200PPM/°C	MP006432
Axial Leaded Metal Oxide Film Resistor, 1W, 220R, ± 2%, ± 200PPM/°C	MP006433
Axial Leaded Metal Oxide Film Resistor, 1W, 2.2K , ± 2%, ± 200PPM/°C	MP006434
Axial Leaded Metal Oxide Film Resistor, 1W, 22K , ± 2%, ± 200PPM/°C	MP006435
Axial Leaded Metal Oxide Film Resistor, 1W, 220K , ± 2%, ± 200PPM/°C	MP006436
Axial Leaded Metal Oxide Film Resistor, 1W, 2.2M, ± 2%, ± 200PPM/°C	MP006437
Axial Leaded Metal Oxide Film Resistor, 1W, 270R, ± 2%, ± 200PPM/°C	MP006438
Axial Leaded Metal Oxide Film Resistor, 1W, 2.7K , ± 2%, ± 200PPM/°C	MP006439
Axial Leaded Metal Oxide Film Resistor, 1W, 27K , ± 2%, ± 200PPM/°C	MP006440
Axial Leaded Metal Oxide Film Resistor, 1W, 270K , ± 2%, ± 200PPM/°C	MP006441
Axial Leaded Metal Oxide Film Resistor, 1W, 2.7M, ± 2%, ± 200PPM/°C	MP006442
Axial Leaded Metal Oxide Film Resistor, 1W, 300R, ± 2%, ± 200PPM/°C	MP006443
Axial Leaded Metal Oxide Film Resistor, 1W, 3K , \pm 2%, \pm 200PPM/°C	MP006444



Description	Part Number
Axial Leaded Metal Oxide Film Resistor, 1W, 30K , ± 2%, ± 200PPM/°C	MP006445
Axial Leaded Metal Oxide Film Resistor, 1W, 300K , ± 2%, ± 200PPM/°C	MP006446
Axial Leaded Metal Oxide Film Resistor, 1W, 3M, ± 2%, ± 200PPM/°C	MP006447
Axial Leaded Metal Oxide Film Resistor, 1W, 390R, ± 2%, ± 200PPM/°C	MP006448
Axial Leaded Metal Oxide Film Resistor, 1W, 3.9K , ± 2%, ± 200PPM/°C	MP006449
Axial Leaded Metal Oxide Film Resistor, 1W, 39K , ± 2%, ± 200PPM/°C	MP006450
Axial Leaded Metal Oxide Film Resistor, 1W, 390K , ± 2%, ± 200PPM/°C	MP006451
Axial Leaded Metal Oxide Film Resistor, 1W, 3.9M, ± 2%, ± 200PPM/°C	MP006452
Axial Leaded Metal Oxide Film Resistor, 1W, 470R, ± 2%, ± 200PPM/°C	MP006453
Axial Leaded Metal Oxide Film Resistor, 1W, 470R, ± 2%, ± 200PPM/°C	MP006454
Axial Leaded Metal Oxide Film Resistor, 1W, 4.7K , ± 2%, ± 200PPM/°C	MP006455
Axial Leaded Metal Oxide Film Resistor, 1W, 47K , ± 2%, ± 200PPM/°C	MP006456
Axial Leaded Metal Oxide Film Resistor, 1W, 470K , ± 2%, ± 200PPM/°C	MP006457
Axial Leaded Metal Oxide Film Resistor, 1W, 4.7M, ± 2%, ± 200PPM/°C	MP006458
Axial Leaded Metal Oxide Film Resistor, 1W, 680R, ± 2%, ± 200PPM/°C	MP006459
Axial Leaded Metal Oxide Film Resistor, 1W, 6.8K , ± 2%, ± 200PPM/°C	MP006460
Axial Leaded Metal Oxide Film Resistor, 1W, 68K , ± 2%, ± 200PPM/°C	MP006461
Axial Leaded Metal Oxide Film Resistor, 1W, 680K , ± 2%, ± 200PPM/°C	MP006462
Axial Leaded Metal Oxide Film Resistor, 1W, 6.8M, ± 2%, ± 200PPM/°C	MP006463
Axial Leaded Metal Oxide Film Resistor, 1W, 820R, ± 2%, ± 200PPM/°C	MP006464
Axial Leaded Metal Oxide Film Resistor, 1W, 8.2K , ± 2%, ± 200PPM/°C	MP006465
Axial Leaded Metal Oxide Film Resistor, 1W, 82K , \pm 2%, \pm 200PPM/°C	MP006466
Axial Leaded Metal Oxide Film Resistor, 1W, 820K , ± 2%, ± 200PPM/°C	MP006467
Axial Leaded Metal Oxide Film Resistor, 1W, 8.2M, ± 2%, ± 200PPM/°C	MP006468
Axial Leaded Metal Oxide Film Resistor, 1W, 910R, ± 2%, ± 200PPM/°C	MP006469
Axial Leaded Metal Oxide Film Resistor, 1W, 9.1K , ± 2%, ± 200PPM/°C	MP006470
Axial Leaded Metal Oxide Film Resistor, 1W, 91K , ± 2%, ± 200PPM/°C	MP006471
Axial Leaded Metal Oxide Film Resistor, 1W, 910K , ± 2%, ± 200PPM/°C	MP006472
Axial Leaded Metal Oxide Film Resistor, 1W, 9.1M, ± 2%, ± 200PPM/°C	MP006473
Axial Leaded Metal Oxide Film Resistor, 1W, 1R, ± 5%, ± 200PPM/°C	MP006474
Axial Leaded Metal Oxide Film Resistor, 1W, 2R, ± 5%, ± 200PPM/°C	MP006475
Axial Leaded Metal Oxide Film Resistor, 1W, 3R, ± 5%, ± 200PPM/°C	MP006476
Axial Leaded Metal Oxide Film Resistor, 1W, 2.2R, ± 5%, ± 200PPM/°C	MP006477

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