

Metal Film Fixed Resistors

Axial Leaded

multicomp^{PRO}

RoHS
Compliant



Specifications

Type	: Metal Film
Rated Power	: 0.25W at 70°C
Max. Working Voltage	: 250V
Max. Overload Voltage	: 500V
Dielectric Withstanding Voltage	: 500V
Rated Ambient Temperature	: 70°C
Operating Temp. Range	: -55°C to +155°C
Resistance Tolerance	: ±2% and ±5%
Temperature Coefficient	: ±200 PPM/°C
Resistance Range	: 10Ω to 20MΩ for ±2% 1Ω to 9.1Ω for ±5%

Power Rating

Resistors shall have a power rating based on continuous full load operation at an ambient temperature of 70°C. For temperature in excess of 70°C, the load shall be derated as shown in the below figure.

Voltage Rating

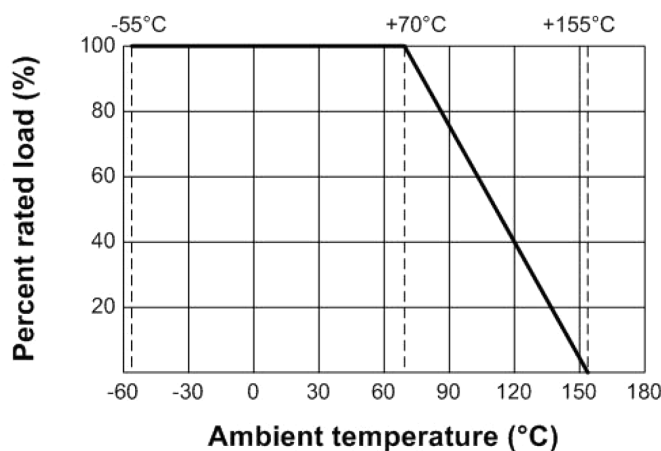
Resistors shall have a rated direct-current (DC) continuous working voltage or an approximate sine-wave root-mean-square (RMS) alternating-current (AC) continuous working voltage at commercial line frequency and waveform corresponding to the power rating, as determined from the following formula:

$$RCWV = \sqrt{P \times R}$$

Where : RCWV = Rated DC or RMS AC continuous working voltage at commercial-line frequency and waveform (V)
P = Power Rating (W)
R = Nominal Resistance (Ω)

Note : Max. Working Voltage or $\sqrt{P \times R}$ whichever is lesser
Max. Overload Voltage or $2.5 \sqrt{P \times R}$ whichever is lesser

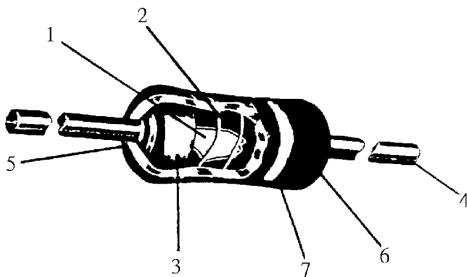
In no case shall the rated DC or RMS AC continuous working voltage be greater than the applicable maximum value.



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Construction



No	Name	Material
1	Basic Body	Rod Type Ceramics
2	Resistance Film	Metal Film
3	End Cap	Steel (Tin plated iron surface)
4	Lead Wire	Annealed copper wire coated with tin
5	Joint	By Welding
6	Coating	Insulated epoxy resin (Colour : Green)
7	Colour Code	Non-Flame Plaint

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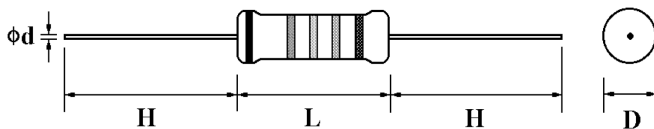
Characteristics	Limits	Test Methods(JIS C 5201-1)
DC. resistance	Must be within the specified tolerance	The limit of error of measuring apparatus shall not exceed allowable range or 1% of resistance tolerance
Temperature coefficient	± 200 PPM/ $^{\circ}$ C	Natural resistance change per temp. degree centigrade $\frac{R_2 - R_1}{R_1(t_2 - t_1)} \times 10^6 \quad (\text{PPM}/^{\circ}\text{C})$ R1: Resistance value at room temperature (t1) R2: Resistance value at room temp. plus 100 $^{\circ}$ C (t2)
Short time overload	Resistance change rate is $\pm (0.5\% + 0.05\Omega)$ Max. with no evidence of mechanical damage	Permanent resistance change after the application of a potential of 2.5 times RCWV for 5 seconds
Dielectric withstanding voltage	No evidence of flashover mechanical damage, arcing or insulation break down	Resistors shall be clamped in the trough of a 90 $^{\circ}$ metallic V-block and shall be tested at AC potential respectively specified in the table 1. for 60 + 10/ -0 seconds
Pulse overload	Resistance change rate is $\pm (1\% + 0.05\Omega)$ Max. with no evidence of mechanical damage	Resistance change after 10,000 cycles (1 sec. "on" , 25 secs. "off") at 4 times RCWV
Terminal strength	No evidence of mechanical damage	Direct load: Resistance to a 2.5 kgs direct load for 10secs. in the direction of the longitudinal axis of the terminal leads Twist test : Terminal leads shall be bent through 90 $^{\circ}$ at a point of about 6mm from the body of the resistor and shall be rotated through 360 $^{\circ}$ about the original axis of the bent terminal in alternating direction for a total of 3 rotations
Resistance to soldering heat	Resistance change rate is $\pm (1\% + 0.05\Omega)$ Max. with no evidence of mechanical damage	Permanent resistance change when leads immersed to 3.2 to 4.8 mm from the body in 260 $^{\circ}$ C $\pm 3^{\circ}$ C solder for 10 + 0/ -1 seconds
Solderability	95% coverage Min.	The area covered with a new, smooth, clean, shiny and continuous surface free from concentrated pinholes. Test temp. of solder : 245 $^{\circ}$ C $\pm 3^{\circ}$ C Dwell time in solder : 2 ~ 3 seconds

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Characteristics	Limits	Test Methods(JIS C 5201-1)															
Resistance to solvent	No deterioration of protective coatings and markings	Specimens shall be immersed in bath of trichroethane completely for 3 mins. with ultrasonic															
Temperature Cycling	Resistance change rate is $\pm(1\% + 0.05\Omega)$ Max. with no evidence of mechanical damage	Resistance change after continuous 5 cycles for duty shown below:															
		<table border="1"> <thead> <tr> <th>Step</th> <th>Temperature</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-55°C $\pm 3^\circ\text{C}$</td> <td>30 mins</td> </tr> <tr> <td>2</td> <td>Room temp.</td> <td>10~15 mins</td> </tr> <tr> <td>3</td> <td>+155°C $\pm 2^\circ\text{C}$</td> <td>30 mins</td> </tr> <tr> <td>4</td> <td>Room temp.</td> <td>10~15 mins</td> </tr> </tbody> </table>	Step	Temperature	Time	1	-55°C $\pm 3^\circ\text{C}$	30 mins	2	Room temp.	10~15 mins	3	+155°C $\pm 2^\circ\text{C}$	30 mins	4	Room temp.	10~15 mins
		Step	Temperature	Time													
		1	-55°C $\pm 3^\circ\text{C}$	30 mins													
		2	Room temp.	10~15 mins													
3	+155°C $\pm 2^\circ\text{C}$	30 mins															
4	Room temp.	10~15 mins															
Load life in humidity	Resistance value	Resistance change after 1,000 hours (1.5 hours "on", 0.5 hour "off") at RCWV in a humidity test chamber controlled at 40°C $\pm 2^\circ\text{C}$ and 90 to 95 % relative humidity															
	Non-Flame type		$\Delta R/R$ $\pm 5\%$														
Load life	Resistance value	Permanent resistance change after 1,000 hours operating at RCWV with duty cycle of 70°C $\pm 2^\circ\text{C}$ ambient															
	Non-Flame type		$\Delta R/R$ $\pm 5\%$														

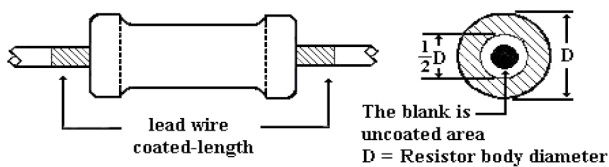
Dimension



Power Rating	D (Max.)	L (Max.)	d ± 0.05	H ± 3
1/4W	2.5mm	6.8mm	0.6mm	28mm

Painting method

Welding point, terminal and lead wire, is permissible to be exposed without the outer coated cover. The extent should be within 1/2 of the arc angle.



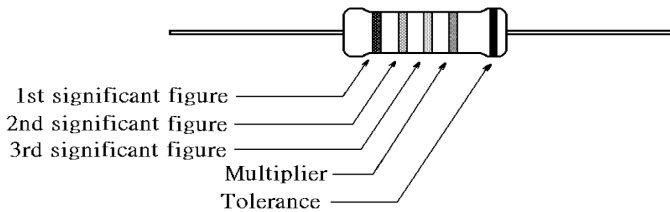
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Marking

Resistor

Resistors shall be marked with colour coding colours shall be in accordance with JIS C 0802



2. Label

Label shall be marked with following items:

1. Type and style
2. Nominal resistance
3. Resistance tolerance
4. Quantity
5. Lot number
6. PPM

Part Number Table

Description	Part Number	Description	Part Number
Axial Leaded Metal Film Resistor, 1/4W, 10R, ±2%	MP006856	Axial Leaded Metal Film Resistor, 1/4W, 120R, ±2%	MP006882
Axial Leaded Metal Film Resistor, 1/4W, 11R, ±2%	MP006857	Axial Leaded Metal Film Resistor, 1/4W, 130R, ±2%	MP006883
Axial Leaded Metal Film Resistor, 1/4W, 12R, ±2%	MP006858	Axial Leaded Metal Film Resistor, 1/4W, 150R, ±2%	MP006884
Axial Leaded Metal Film Resistor, 1/4W, 13R, ±2%	MP006859	Axial Leaded Metal Film Resistor, 1/4W, 160R, ±2%	MP006885
Axial Leaded Metal Film Resistor, 1/4W, 15R, ±2%	MP006860	Axial Leaded Metal Film Resistor, 1/4W, 180R, ±2%	MP006886
Axial Leaded Metal Film Resistor, 1/4W, 16R, ±2%	MP006861	Axial Leaded Metal Film Resistor, 1/4W, 200R, ±2%	MP006887
Axial Leaded Metal Film Resistor, 1/4W, 18R, ±2%	MP006862	Axial Leaded Metal Film Resistor, 1/4W, 220R, ±2%	MP006888
Axial Leaded Metal Film Resistor, 1/4W, 20R, ±2%	MP006863	Axial Leaded Metal Film Resistor, 1/4W, 240R, ±2%	MP006889
Axial Leaded Metal Film Resistor, 1/4W, 22R, ±2%	MP006864	Axial Leaded Metal Film Resistor, 1/4W, 270R, ±2%	MP006890
Axial Leaded Metal Film Resistor, 1/4W, 24R, ±2%	MP006865	Axial Leaded Metal Film Resistor, 1/4W, 300R, ±2%	MP006891
Axial Leaded Metal Film Resistor, 1/4W, 27R, ±2%	MP006866	Axial Leaded Metal Film Resistor, 1/4W, 330R, ±2%	MP006892
Axial Leaded Metal Film Resistor, 1/4W, 30R, ±2%	MP006867	Axial Leaded Metal Film Resistor, 1/4W, 360R, ±2%	MP006893
Axial Leaded Metal Film Resistor, 1/4W, 33R, ±2%	MP006868	Axial Leaded Metal Film Resistor, 1/4W, 390R, ±2%	MP006894
Axial Leaded Metal Film Resistor, 1/4W, 36R, ±2%	MP006869	Axial Leaded Metal Film Resistor, 1/4W, 430R, ±2%	MP006895
Axial Leaded Metal Film Resistor, 1/4W, 39R, ±2%	MP006870	Axial Leaded Metal Film Resistor, 1/4W, 470R, ±2%	MP006896
Axial Leaded Metal Film Resistor, 1/4W, 43R, ±2%	MP006871	Axial Leaded Metal Film Resistor, 1/4W, 510R, ±2%	MP006897
Axial Leaded Metal Film Resistor, 1/4W, 47R, ±2%	MP006872	Axial Leaded Metal Film Resistor, 1/4W, 560R, ±2%	MP006898
Axial Leaded Metal Film Resistor, 1/4W, 51R, ±2%	MP006873	Axial Leaded Metal Film Resistor, 1/4W, 620R, ±2%	MP006899
Axial Leaded Metal Film Resistor, 1/4W, 56R, ±2%	MP006874	Axial Leaded Metal Film Resistor, 1/4W, 680R, ±2%	MP006900
Axial Leaded Metal Film Resistor, 1/4W, 62R, ±2%	MP006875	Axial Leaded Metal Film Resistor, 1/4W, 750R, ±2%	MP006901
Axial Leaded Metal Film Resistor, 1/4W, 68R, ±2%	MP006876	Axial Leaded Metal Film Resistor, 1/4W, 820R, ±2%	MP006902
Axial Leaded Metal Film Resistor, 1/4W, 75R, ±2%	MP006877	Axial Leaded Metal Film Resistor, 1/4W, 910R, ±2%	MP006903
Axial Leaded Metal Film Resistor, 1/4W, 82R, ±2%	MP006878	Axial Leaded Metal Film Resistor, 1/4W, 1K, ±2%	MP006904
Axial Leaded Metal Film Resistor, 1/4W, 91R, ±2%	MP006879	Axial Leaded Metal Film Resistor, 1/4W, 1.1K, ±2%	MP006905
Axial Leaded Metal Film Resistor, 1/4W, 100R, ±2%	MP006880	Axial Leaded Metal Film Resistor, 1/4W, 1.2K, ±2%	MP006906
Axial Leaded Metal Film Resistor, 1/4W, 110R, ±2%	MP006881	Axial Leaded Metal Film Resistor, 1/4W, 1.3K, ±2%	MP006907

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Axial Leaded Metal Film Resistor, 1/4W, 1.4K, $\pm 2\%$	MP006908	Axial Leaded Metal Film Resistor, 1/4W, 91K, $\pm 2\%$	MP006949
Axial Leaded Metal Film Resistor, 1/4W, 1.6K, $\pm 2\%$	MP006909	Axial Leaded Metal Film Resistor, 1/4W, 100K, $\pm 2\%$	MP006950
Axial Leaded Metal Film Resistor, 1/4W, 1.8K, $\pm 2\%$	MP006910	Axial Leaded Metal Film Resistor, 1/4W, 110K, $\pm 2\%$	MP006951
Axial Leaded Metal Film Resistor, 1/4W, 2K, $\pm 2\%$	MP006911	Axial Leaded Metal Film Resistor, 1/4W, 120K, $\pm 2\%$	MP006952
Axial Leaded Metal Film Resistor, 1/4W, 2.2K, $\pm 2\%$	MP006912	Axial Leaded Metal Film Resistor, 1/4W, 130K, $\pm 2\%$	MP006953
Axial Leaded Metal Film Resistor, 1/4W, 2.4K, $\pm 2\%$	MP006913	Axial Leaded Metal Film Resistor, 1/4W, 150K, $\pm 2\%$	MP006954
Axial Leaded Metal Film Resistor, 1/4W, 2.7K, $\pm 2\%$	MP006914	Axial Leaded Metal Film Resistor, 1/4W, 160K, $\pm 2\%$	MP006955
Axial Leaded Metal Film Resistor, 1/4W, 3K, $\pm 2\%$	MP006915	Axial Leaded Metal Film Resistor, 1/4W, 180K, $\pm 2\%$	MP006956
Axial Leaded Metal Film Resistor, 1/4W, 3.3K, $\pm 2\%$	MP006916	Axial Leaded Metal Film Resistor, 1/4W, 200K, $\pm 2\%$	MP006957
Axial Leaded Metal Film Resistor, 1/4W, 3.6K, $\pm 2\%$	MP006917	Axial Leaded Metal Film Resistor, 1/4W, 220K, $\pm 2\%$	MP006958
Axial Leaded Metal Film Resistor, 1/4W, 3.9K, $\pm 2\%$	MP006918	Axial Leaded Metal Film Resistor, 1/4W, 240K, $\pm 2\%$	MP006959
Axial Leaded Metal Film Resistor, 1/4W, 4.3K, $\pm 2\%$	MP006919	Axial Leaded Metal Film Resistor, 1/4W, 270K, $\pm 2\%$	MP006960
Axial Leaded Metal Film Resistor, 1/4W, 4.7K, $\pm 2\%$	MP006920	Axial Leaded Metal Film Resistor, 1/4W, 300K, $\pm 2\%$	MP006961
Axial Leaded Metal Film Resistor, 1/4W, 5.1K, $\pm 2\%$	MP006921	Axial Leaded Metal Film Resistor, 1/4W, 330K, $\pm 2\%$	MP006962
Axial Leaded Metal Film Resistor, 1/4W, 5.6K, $\pm 2\%$	MP006922	Axial Leaded Metal Film Resistor, 1/4W, 390K, $\pm 2\%$	MP006963
Axial Leaded Metal Film Resistor, 1/4W, 6.2K, $\pm 2\%$	MP006923	Axial Leaded Metal Film Resistor, 1/4W, 430K, $\pm 2\%$	MP006964
Axial Leaded Metal Film Resistor, 1/4W, 6.8K, $\pm 2\%$	MP006924	Axial Leaded Metal Film Resistor, 1/4W, 470K, $\pm 2\%$	MP006965
Axial Leaded Metal Film Resistor, 1/4W, 7.5K, $\pm 2\%$	MP006925	Axial Leaded Metal Film Resistor, 1/4W, 510K, $\pm 2\%$	MP006966
Axial Leaded Metal Film Resistor, 1/4W, 8.2K, $\pm 2\%$	MP006926	Axial Leaded Metal Film Resistor, 1/4W, 560K, $\pm 2\%$	MP006967
Axial Leaded Metal Film Resistor, 1/4W, 9.1K, $\pm 2\%$	MP006927	Axial Leaded Metal Film Resistor, 1/4W, 620K, $\pm 2\%$	MP006968
Axial Leaded Metal Film Resistor, 1/4W, 10K, $\pm 2\%$	MP006928	Axial Leaded Metal Film Resistor, 1/4W, 680K, $\pm 2\%$	MP006969
Axial Leaded Metal Film Resistor, 1/4W, 11K, $\pm 2\%$	MP006929	Axial Leaded Metal Film Resistor, 1/4W, 750K, $\pm 2\%$	MP006970
Axial Leaded Metal Film Resistor, 1/4W, 12K, $\pm 2\%$	MP006930	Axial Leaded Metal Film Resistor, 1/4W, 820K, $\pm 2\%$	MP006971
Axial Leaded Metal Film Resistor, 1/4W, 13K, $\pm 2\%$	MP006931	Axial Leaded Metal Film Resistor, 1/4W, 910K, $\pm 2\%$	MP006972
Axial Leaded Metal Film Resistor, 1/4W, 15K, $\pm 2\%$	MP006932	Axial Leaded Metal Film Resistor, 1/4W, 1M, $\pm 2\%$	MP006973
Axial Leaded Metal Film Resistor, 1/4W, 16K, $\pm 2\%$	MP006933	Axial Leaded Metal Film Resistor, 1/4W, 1.1M, $\pm 2\%$	MP006974
Axial Leaded Metal Film Resistor, 1/4W, 18K, $\pm 2\%$	MP006934	Axial Leaded Metal Film Resistor, 1/4W, 1.2M, $\pm 2\%$	MP006975
Axial Leaded Metal Film Resistor, 1/4W, 20K, $\pm 2\%$	MP006935	Axial Leaded Metal Film Resistor, 1/4W, 1.3M, $\pm 2\%$	MP006976
Axial Leaded Metal Film Resistor, 1/4W, 22K, $\pm 2\%$	MP006936	Axial Leaded Metal Film Resistor, 1/4W, 1.5M, $\pm 2\%$	MP006977
Axial Leaded Metal Film Resistor, 1/4W, 24K, $\pm 2\%$	MP006937	Axial Leaded Metal Film Resistor, 1/4W, 1.6M, $\pm 2\%$	MP006978
Axial Leaded Metal Film Resistor, 1/4W, 27K, $\pm 2\%$	MP006938	Axial Leaded Metal Film Resistor, 1/4W, 1.8M, $\pm 2\%$	MP006979
Axial Leaded Metal Film Resistor, 1/4W, 30K, $\pm 2\%$	MP006939	Axial Leaded Metal Film Resistor, 1/4W, 2M, $\pm 2\%$	MP006980
Axial Leaded Metal Film Resistor, 1/4W, 33K, $\pm 2\%$	MP006940	Axial Leaded Metal Film Resistor, 1/4W, 2.2M, $\pm 2\%$	MP006981
Axial Leaded Metal Film Resistor, 1/4W, 36K, $\pm 2\%$	MP006941	Axial Leaded Metal Film Resistor, 1/4W, 2.4M, $\pm 2\%$	MP006982
Axial Leaded Metal Film Resistor, 1/4W, 43K, $\pm 2\%$	MP006942	Axial Leaded Metal Film Resistor, 1/4W, 2.7M, $\pm 2\%$	MP006983
Axial Leaded Metal Film Resistor, 1/4W, 47K, $\pm 2\%$	MP006943	Axial Leaded Metal Film Resistor, 1/4W, 3M, $\pm 2\%$	MP006984
Axial Leaded Metal Film Resistor, 1/4W, 51K, $\pm 2\%$	MP006944	Axial Leaded Metal Film Resistor, 1/4W, 3.3M, $\pm 2\%$	MP006985
Axial Leaded Metal Film Resistor, 1/4W, 62K, $\pm 2\%$	MP006945	Axial Leaded Metal Film Resistor, 1/4W, 3.6M, $\pm 2\%$	MP006986
Axial Leaded Metal Film Resistor, 1/4W, 68K, $\pm 2\%$	MP006946	Axial Leaded Metal Film Resistor, 1/4W, 3.9M, $\pm 2\%$	MP006987
Axial Leaded Metal Film Resistor, 1/4W, 75K, $\pm 2\%$	MP006947	Axial Leaded Metal Film Resistor, 1/4W, 4.3M, $\pm 2\%$	MP006988
Axial Leaded Metal Film Resistor, 1/4W, 82K, $\pm 2\%$	MP006948	Axial Leaded Metal Film Resistor, 1/4W, 4.7M, $\pm 2\%$	MP006989

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Axial Leaded Metal Film Resistor, 1/4W, 5.1M, $\pm 2\%$	MP006990	Axial Leaded Metal Film Resistor, 1/4W, 1.6R, $\pm 5\%$	MP007010
Axial Leaded Metal Film Resistor, 1/4W, 5.6M, $\pm 2\%$	MP006991	Axial Leaded Metal Film Resistor, 1/4W, 1.8R, $\pm 5\%$	MP007011
Axial Leaded Metal Film Resistor, 1/4W, 6.2M, $\pm 2\%$	MP006992	Axial Leaded Metal Film Resistor, 1/4W, 2R, $\pm 5\%$	MP007012
Axial Leaded Metal Film Resistor, 1/4W, 6.8M, $\pm 2\%$	MP006993	Axial Leaded Metal Film Resistor, 1/4W, 2.2R, $\pm 5\%$	MP007013
Axial Leaded Metal Film Resistor, 1/4W, 7.5M, $\pm 2\%$	MP006994	Axial Leaded Metal Film Resistor, 1/4W, 2.4R, $\pm 5\%$	MP007014
Axial Leaded Metal Film Resistor, 1/4W, 8.2M, $\pm 2\%$	MP006995	Axial Leaded Metal Film Resistor, 1/4W, 2.7R, $\pm 5\%$	MP007015
Axial Leaded Metal Film Resistor, 1/4W, 9.1M, $\pm 2\%$	MP006996	Axial Leaded Metal Film Resistor, 1/4W, 3R, $\pm 5\%$	MP007016
Axial Leaded Metal Film Resistor, 1/4W, 10M, $\pm 2\%$	MP006997	Axial Leaded Metal Film Resistor, 1/4W, 3.3R, $\pm 5\%$	MP007017
Axial Leaded Metal Film Resistor, 1/4W, 11M, $\pm 2\%$	MP006998	Axial Leaded Metal Film Resistor, 1/4W, 3.6R, $\pm 5\%$	MP007018
Axial Leaded Metal Film Resistor, 1/4W, 12M, $\pm 2\%$	MP006999	Axial Leaded Metal Film Resistor, 1/4W, 3.9R, $\pm 5\%$	MP007019
Axial Leaded Metal Film Resistor, 1/4W, 13M, $\pm 2\%$	MP007000	Axial Leaded Metal Film Resistor, 1/4W, 4.3R, $\pm 5\%$	MP007020
Axial Leaded Metal Film Resistor, 1/4W, 15M, $\pm 2\%$	MP007001	Axial Leaded Metal Film Resistor, 1/4W, 4.7R, $\pm 5\%$	MP007021
Axial Leaded Metal Film Resistor, 1/4W, 16M, $\pm 2\%$	MP007002	Axial Leaded Metal Film Resistor, 1/4W, 5.1R, $\pm 5\%$	MP007022
Axial Leaded Metal Film Resistor, 1/4W, 18M, $\pm 2\%$	MP007003	Axial Leaded Metal Film Resistor, 1/4W, 5.6R, $\pm 5\%$	MP007023
Axial Leaded Metal Film Resistor, 1/4W, 20M, $\pm 2\%$	MP007004	Axial Leaded Metal Film Resistor, 1/4W, 6.2R, $\pm 5\%$	MP007024
Axial Leaded Metal Film Resistor, 1/4W, 1R, $\pm 5\%$	MP007005	Axial Leaded Metal Film Resistor, 1/4W, 6.8R, $\pm 5\%$	MP007025
Axial Leaded Metal Film Resistor, 1/4W, 1.1R, $\pm 5\%$	MP007006	Axial Leaded Metal Film Resistor, 1/4W, 7.5R, $\pm 5\%$	MP007026
Axial Leaded Metal Film Resistor, 1/4W, 1.2R, $\pm 5\%$	MP007007	Axial Leaded Metal Film Resistor, 1/4W, 8.2R, $\pm 5\%$	MP007027
Axial Leaded Metal Film Resistor, 1/4W, 1.3R, $\pm 5\%$	MP007008	Axial Leaded Metal Film Resistor, 1/4W, 9.1R, $\pm 5\%$	MP007028
Axial Leaded Metal Film Resistor, 1/4W, 1.5R, $\pm 5\%$	MP007009		

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