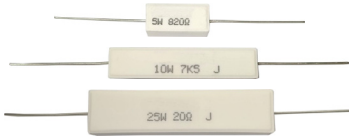


# Cement Fixed Resistors Axial Leaded

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Compliant**



## Specifications

Rated Power	: 1W, 2W, 3W, 5W, 7W, 10W, 15W, 20W and 25W
Max. Working Voltage	: 500V
Max. Overload Voltage	: 1000V
Rated Ambient Temp.	: +70°C
Operating Temp. Range	: -55°C to +155°C
Resistance Tolerance	: ±5% & ±10%

## Power Rating

Resistors shall have a power rating based on continuous full load operation at an ambient temperature of 70°C

## 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:

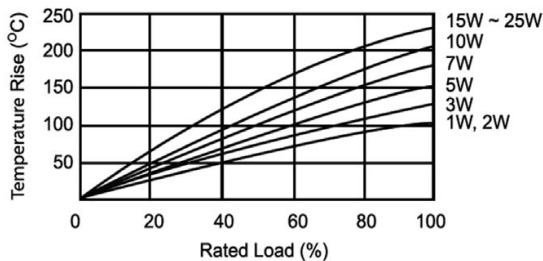
$$RCWV = \sqrt{P \times R}$$

RCWV = Rated DC or RMS AC continuous working voltage at commercial-line frequency and waveform (Volt)

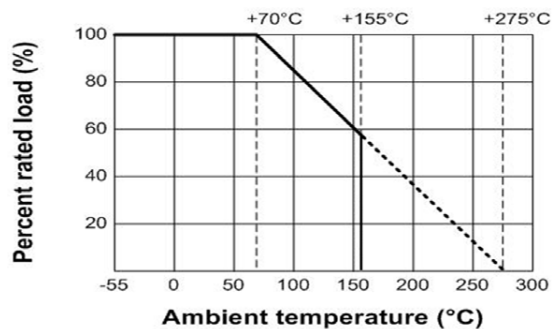
P = Power Rating (watt)

R = Nominal Resistance (ohm)

## Heat Rise Chart



## Derating Curve



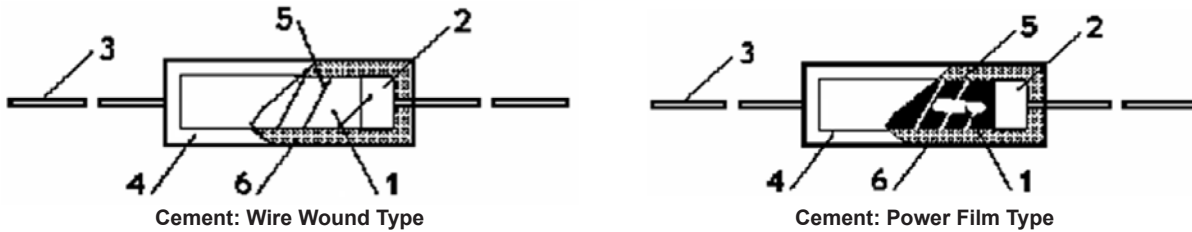
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# Cement Fixed Resistors

## Axial Ledded

### Construction



### List of Material

No.	Subpart Name	Material	Material Generic Name
1	Body	Rod Type Ceramics	Al <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub>
2	End Cap	Tin plated iron surface	Tin: 5%, Iron: 95%
3	Lead	Annealed copper wire	Tin-Plated Copper wire
4	Ceramic Case	Ceramic	Al <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub>
5	Resistance wire Resistance film	Cu-Ni Alloy / Ni-Cr Alloy Metal Oxide Film	Cu-Ni Alloy / Ni-Cr Alloy Metal Oxide Film
6	Filling Materials	Quartz mixed sand	SiO <sub>2</sub>

### Characteristic

Characteristics	Limits	Test Methods (JIS C 5201-1)
Dielectric withstanding voltage	No evidence of flashover, mechanical damage, arcing or insulation break down	Resistors shall be clamped in the trough of a 90° metallic V-block and shall be tested at AC potential respectively for 60 +10/ -0 secs.
Temperature coefficient	<20Ω: ± 400 PPM/°C ≥ 20Ω: ± 350 PPM/°C	Natural resistance change per temp. degree centigrade. $\frac{R_2 - R_1}{R_1(t_2 - t_1)} \times 10^6 \text{ (PPM/°C)}$ R <sub>1</sub> : Resistance value at room temperature (t <sub>1</sub> ) R <sub>2</sub> : Resistance value at room temp. plus 100°C (t <sub>2</sub> )
Short time overload	Resistance change rate is ±(5% + 0.05Ω) Max. with no evidence of mechanical damage	Permanent resistance change after the application of a potential of 2.5 times RCWV for 5 seconds
Terminal strength	No evidence of mechanical damage	<b>Direct load:</b> Resistance to a 2.5 kgs direct load for 10 secs. in the direction of the longitudinal axis of the terminal leads <b>Twist test:</b> Terminal leads shall be bent through 90° at a point of about 6mm from the body of the resistor and shall be rotated through 360° about the original axis of the bent terminal in alternating direction for a total of 3 rotations

# Cement Fixed Resistors

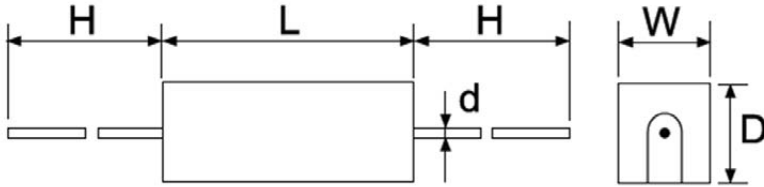
## Axial Leaded

Characteristics	Limits	Test Methods (JIS C 5201-1)															
Solderability	95% coverage Min.	The area covered with a new, smooth clean , shiny and continuous surface free from concentrated pin-holes. Test temp. of solder : 245°C ±5°C Dwell time in solder : 2 to 3 secs.															
Soldering temp. reference	Electrical characteristics shall be satisfied. Without distinct deformation in appearance. (95 % coverage Min.)	The leads immersed into solder bath to 3.2 to 4.8mm. from the body. Permanent resistance change shall be checked. Wave soldering condition: (2 cycles Max.) Pre-heat : 100 ~ 120°C, 30 ±5sec. Suggestion solder temp.: 235 ~ 255°C, 10 sec. (Max.) Peak temp.: 260°C Hand soldering condition: Hand Soldering bit temp. : 380 ±10°C Dwell time in solder : 3 +1/-0 sec.															
Resistance to soldering heat	Resistance change rate is ±(1% + 0.05Ω) Max. with no evidence of mechanical damage	Permanent resistance change when leads immersed to 3.2 to 4.8 mm from the body in 350°C ± 10°C solder for 3 ±0.5 secs.															
Temperature cycling	Resistance change rate is ±(2% + 0.05Ω) 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 ±3°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 ±2°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 ±3°C	30 mins	2	Room temp.	10~15 mins	3	+155°C ±2°C	30 mins	4	Room temp.	10~15 mins
		Step	Temperature	Time													
		1	-55°C ±3°C	30 mins													
		2	Room temp.	10~15 mins													
3	+155°C ±2°C	30 mins															
4	Room temp.	10~15 mins															
Load life in humidity	<b>Resistance value</b>		Resistance change after 1,000 hours operating at RCWV with duty cycle of (1.5 hours "on", 0.5 hour "off") in a humidity test chamber controlled at 40°C ± 2°C and 90 to 95 % relative humidity														
	Wire-wound			ΔR/R													
	Power film:	<100kΩ		±5%													
		≥100kΩ		±10%													
Load life	<b>Resistance value</b>		Permanent resistance change after 1,000 hours operating at RCWV with duty cycle of (1.5 hours "on", 0.5 hour "off") at 70°C ±2°C ambient														
	Wire-wound			ΔR/R													
	Power film:	<100kΩ		±5%													
		≥100kΩ		±10%													

# Cement Fixed Resistors

## Axial Leaded

### Diagram



Rating Wattage	W ±1 (mm)	D ±1 (mm)	L ±1 (mm)	d ±0.05 (mm)	H ±5 (mm)	Wire-wound Resistance Range	Power Film Resistance Range
1W	6	6	14	0.7	25	-	30Ω
2W	7	7	18	0.75	28	4.7Ω	100Ω, 3.3KΩ
3W	8	8	22		32	0.15Ω to 0.82Ω	56Ω to 25KΩ
5W	10	9	35		35	0.1Ω to 47Ω	56Ω to 39KΩ
7W			15Ω to 33Ω			-	
10W			0.1Ω to 820Ω			1KΩ to 27KΩ	
15W	12.5	11.5	49			1Ω to 1KΩ	-
20W	14.5	13.5	60			3.3Ω to 100Ω	-
25W			64			0.2Ω to 1.2KΩ	1.5KΩ to 8.2KΩ

### Part Number Table

Description	Part Number
Axial Leaded Power Film Resistor, 1W, 30R, ±5%	MCPRW01WJP300B00
Axial Leaded Wire Wound Resistor, 2W, 4.7R, ±5%	MCPRW02WJW47JB00
Axial Leaded Power Film Resistor, 2W, 100R, ±10%	MCPRW02WKP101B00
Axial Leaded Power Film Resistor, 2W, 3.3K, ±10%	MCPRW02WKP332B00
Axial Leaded Wire Wound Resistor, 3W, 0.15R, ±5%	MCPRW03WJW15KB00
Axial Leaded Wire Wound Resistor, 3W, 0.3R, ±5%	MCPRW03WJW30KB00
Axial Leaded Wire Wound Resistor, 3W, 0.68R, ±5%	MCPRW03WJW68KB00
Axial Leaded Wire Wound Resistor, 3W, 0.82R, ±5%	MCPRW03WJW82KB00
Axial Leaded Power Film Resistor, 3W, 56R, ±5%	MCPRW03WJP560B00
Axial Leaded Power Film Resistor, 3W, 560R, ±5%	MCPRW03WJP561B00
Axial Leaded Power Film Resistor, 3W, 25K, ±5%	MCPRW03WJP253B00
Axial Leaded Wire Wound Resistor, 5W, 0.1R, ±5%	MP006022
Axial Leaded Wire Wound Resistor, 5W, 0.12R, ±5%	MP006023
Axial Leaded Wire Wound Resistor, 5W, 0.15R, ±5%	MP006024
Axial Leaded Wire Wound Resistor, 5W, 0.18R, ±5%	MP006025
Axial Leaded Wire Wound Resistor, 5W, 0.2R, ±5%	MP006026
Axial Leaded Wire Wound Resistor, 5W, 0.22R, ±5%	MP006027

# Cement Fixed Resistors

## Axial Leaded

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Description	Part Number
Axial Leaded Wire Wound Resistor, 5W, 0.24R, $\pm 5\%$	MP006028
Axial Leaded Wire Wound Resistor, 5W, 0.27R, $\pm 5\%$	MP006029
Axial Leaded Wire Wound Resistor, 5W, 0.3R, $\pm 5\%$	MP006030
Axial Leaded Wire Wound Resistor, 5W, 0.33R, $\pm 5\%$	MP006031
Axial Leaded Wire Wound Resistor, 5W, 0.36R, $\pm 5\%$	MP006032
Axial Leaded Wire Wound Resistor, 5W, 0.39R, $\pm 5\%$	MP006033
Axial Leaded Wire Wound Resistor, 5W, 0.43R, $\pm 5\%$	MP006034
Axial Leaded Wire Wound Resistor, 5W, 0.47R, $\pm 5\%$	MP006035
Axial Leaded Wire Wound Resistor, 5W, 0.51R, $\pm 5\%$	MP006036
Axial Leaded Wire Wound Resistor, 5W, 0.56R, $\pm 5\%$	MP006037
Axial Leaded Wire Wound Resistor, 5W, 0.62R, $\pm 5\%$	MP006038
Axial Leaded Wire Wound Resistor, 5W, 0.68R, $\pm 5\%$	MP006039
Axial Leaded Wire Wound Resistor, 5W, 0.75R, $\pm 5\%$	MP006040
Axial Leaded Wire Wound Resistor, 5W, 0.82R, $\pm 5\%$	MP006041
Axial Leaded Wire Wound Resistor, 5W, 0.91R, $\pm 5\%$	MP006042
Axial Leaded Wire Wound Resistor, 5W, 0.1R, $\pm 5\%$	MP006043
Axial Leaded Wire Wound Resistor, 5W, 1R, $\pm 5\%$	MCPRW05WJW10JB00
Axial Leaded Wire Wound Resistor, 5W, 1.2R, $\pm 5\%$	MP006044
Axial Leaded Wire Wound Resistor, 5W, 1.5R, $\pm 5\%$	MP006045
Axial Leaded Wire Wound Resistor, 5W, 1.8R, $\pm 5\%$	MP006046
Axial Leaded Wire Wound Resistor, 5W, 2R, $\pm 5\%$	MCPRW05WJW20JB00
Axial Leaded Wire Wound Resistor, 5W, 2.2R, $\pm 5\%$	MP006047
Axial Leaded Wire Wound Resistor, 5W, 2.7R, $\pm 5\%$	MP006048
Axial Leaded Wire Wound Resistor, 5W, 3.3R, $\pm 5\%$	MP006049
Axial Leaded Wire Wound Resistor, 5W, 3.9R, $\pm 5\%$	MCPRW05WJW39JB00
Axial Leaded Wire Wound Resistor, 5W, 4.7R, $\pm 5\%$	MP006051
Axial Leaded Wire Wound Resistor, 5W, 5R, $\pm 5\%$	MP006052
Axial Leaded Wire Wound Resistor, 5W, 5.1R, $\pm 5\%$	MP006053
Axial Leaded Wire Wound Resistor, 5W, 5.6R, $\pm 5\%$	MP006054
Axial Leaded Wire Wound Resistor, 5W, 6.8R, $\pm 5\%$	MCPRW05WJW68JB00
Axial Leaded Wire Wound Resistor, 5W, 8.2R, $\pm 5\%$	MP006056
Axial Leaded Wire Wound Resistor, 5W, 10R, $\pm 5\%$	MCPRW05WJW100B00
Axial Leaded Wire Wound Resistor, 5W, 12R, $\pm 5\%$	MP006058
Axial Leaded Wire Wound Resistor, 5W, 15R, $\pm 5\%$	MP006059
Axial Leaded Wire Wound Resistor, 5W, 18R, $\pm 5\%$	MP006060
Axial Leaded Wire Wound Resistor, 5W, 20R, $\pm 5\%$	MCPRW05WJW200B00
Axial Leaded Wire Wound Resistor, 5W, 22R, $\pm 5\%$	MP006061
Axial Leaded Wire Wound Resistor, 5W, 27R, $\pm 5\%$	MCPRW05WJW270B00
Axial Leaded Wire Wound Resistor, 5W, 30R, $\pm 5\%$	MCPRW05WJW300B00

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# Cement Fixed Resistors

## Axial Leaded

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Description	Part Number
Axial Leaded Wire Wound Resistor, 5W, 33R, $\pm 5\%$	MCPRW05WJW330B00
Axial Leaded Wire Wound Resistor, 5W, 39R, $\pm 5\%$	MP006064
Axial Leaded Wire Wound Resistor, 5W, 47R, $\pm 5\%$	MCPRW05WJW470B00
Axial Leaded Power Film Resistor, 5W, 56R, $\pm 5\%$	MP005990
Axial Leaded Power Film Resistor, 5W, 68R, $\pm 5\%$	MP005991
Axial Leaded Power Film Resistor, 5W, 82R, $\pm 5\%$	MP005992
Axial Leaded Power Film Resistor, 5W, 100R, $\pm 5\%$	MP005993
Axial Leaded Power Film Resistor, 5W, 120R, $\pm 5\%$	MP005994
Axial Leaded Power Film Resistor, 5W, 150R, $\pm 5\%$	MP005995
Axial Leaded Power Film Resistor, 5W, 180R, $\pm 5\%$	MP005996
Axial Leaded Power Film Resistor, 5W, 220R, $\pm 5\%$	MP005997
Axial Leaded Power Film Resistor, 5W, 270R, $\pm 5\%$	MP005998
Axial Leaded Power Film Resistor, 5W, 330R, $\pm 5\%$	MCPRW05WJP331B00
Axial Leaded Power Film Resistor, 5W, 390R, $\pm 5\%$	MP006000
Axial Leaded Power Film Resistor, 5W, 470R, $\pm 5\%$	MP006001
Axial Leaded Power Film Resistor, 5W, 560R, $\pm 5\%$	MP006002
Axial Leaded Power Film Resistor, 5W, 680R, $\pm 5\%$	MP006003
Axial Leaded Power Film Resistor, 5W, 820R, $\pm 5\%$	MP006004
Axial Leaded Power Film Resistor, 5W, 1K, $\pm 5\%$	MP006005
Axial Leaded Power Film Resistor, 5W, 1.2K, $\pm 5\%$	MP006006
Axial Leaded Power Film Resistor, 5W, 1.5K, $\pm 5\%$	MP006007
Axial Leaded Power Film Resistor, 5W, 1.8K, $\pm 5\%$	MP006008
Axial Leaded Power Film Resistor, 5W, 2K, $\pm 5\%$	MCPRW05WJP202B00
Axial Leaded Power Film Resistor, 5W, 2.2K, $\pm 5\%$	MP006009
Axial Leaded Power Film Resistor, 5W, 2.7K, $\pm 5\%$	MP006010
Axial Leaded Power Film Resistor, 5W, 3.3K, $\pm 5\%$	MP006011
Axial Leaded Power Film Resistor, 5W, 3.9K, $\pm 5\%$	MCPRW05WJP392B00
Axial Leaded Power Film Resistor, 5W, 4.7K, $\pm 5\%$	MP006013
Axial Leaded Power Film Resistor, 5W, 5.6K, $\pm 5\%$	MP006014
Axial Leaded Power Film Resistor, 5W, 6.8K, $\pm 5\%$	MP006015
Axial Leaded Power Film Resistor, 5W, 8.2K, $\pm 5\%$	MP006016
Axial Leaded Power Film Resistor, 5W, 8.5K, $\pm 5\%$	MP006017
Axial Leaded Power Film Resistor, 5W, 10K, $\pm 5\%$	MP006018
Axial Leaded Power Film Resistor, 5W, 11K, $\pm 5\%$	MP006019
Axial Leaded Power Film Resistor, 5W, 12K, $\pm 5\%$	MP006020
Axial Leaded Power Film Resistor, 5W, 15K, $\pm 5\%$	MP006021
Axial Leaded Power Film Resistor, 5W, 33K, $\pm 5\%$	MCPRW05WJP333B00
Axial Leaded Power Film Resistor, 5W, 39K, $\pm 5\%$	MCPRW05WJP393B00
Axial Leaded Wire Wound Resistor, 7W, 15R, $\pm 5\%$	MCPRW07WJW150B00

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# Cement Fixed Resistors

## Axial Leaded

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Description	Part Number
Axial Leaded Wire Wound Resistor, 7W, 20R, $\pm 5\%$	MCPRW07WJW200B00
Axial Leaded Wire Wound Resistor, 7W, 33R, $\pm 5\%$	MCPRW07WJW330B00
Axial Leaded Wire Wound Resistor, 10W, 0.1R, $\pm 5\%$	MP006085
Axial Leaded Wire Wound Resistor, 10W, 0.12R, $\pm 5\%$	MP006086
Axial Leaded Wire Wound Resistor, 10W, 0.15R, $\pm 5\%$	MP006087
Axial Leaded Wire Wound Resistor, 10W, 0.18R, $\pm 5\%$	MP006088
Axial Leaded Wire Wound Resistor, 10W, 0.2R, $\pm 5\%$	MP006089
Axial Leaded Wire Wound Resistor, 10W, 0.22R, $\pm 5\%$	MP006090
Axial Leaded Wire Wound Resistor, 10W, 0.24R, $\pm 5\%$	MP006091
Axial Leaded Wire Wound Resistor, 10W, 0.27R, $\pm 5\%$	MP006092
Axial Leaded Wire Wound Resistor, 10W, 0.3R, $\pm 5\%$	MP006093
Axial Leaded Wire Wound Resistor, 10W, 0.33R, $\pm 5\%$	MP006094
Axial Leaded Wire Wound Resistor, 10W, 0.36R, $\pm 5\%$	MP006095
Axial Leaded Wire Wound Resistor, 10W, 0.39R, $\pm 5\%$	MP006096
Axial Leaded Wire Wound Resistor, 10W, 0.43R, $\pm 5\%$	MP006097
Axial Leaded Wire Wound Resistor, 10W, 0.47R, $\pm 5\%$	MP006098
Axial Leaded Wire Wound Resistor, 10W, 0.51R, $\pm 5\%$	MP006099
Axial Leaded Wire Wound Resistor, 10W, 0.56R, $\pm 5\%$	MP006100
Axial Leaded Wire Wound Resistor, 10W, 0.62R, $\pm 5\%$	MP006101
Axial Leaded Wire Wound Resistor, 10W, 0.68R, $\pm 5\%$	MP006102
Axial Leaded Wire Wound Resistor, 10W, 0.75R, $\pm 5\%$	MP006103
Axial Leaded Wire Wound Resistor, 10W, 0.82R, $\pm 5\%$	MP006104
Axial Leaded Wire Wound Resistor, 10W, 0.91R, $\pm 5\%$	MP006105
Axial Leaded Wire Wound Resistor, 10W, 1R, $\pm 5\%$	MCPRW0AWJW10JB00
Axial Leaded Wire Wound Resistor, 10W, 1.2R, $\pm 5\%$	MP006107
Axial Leaded Wire Wound Resistor, 10W, 1.5R, $\pm 5\%$	MP006108
Axial Leaded Wire Wound Resistor, 10W, 1.8R, $\pm 5\%$	MP006109
Axial Leaded Wire Wound Resistor, 10W, 2R, $\pm 5\%$	MCPRW0AWJW20JB00
Axial Leaded Wire Wound Resistor, 10W, 2.2R, $\pm 5\%$	MP006111
Axial Leaded Wire Wound Resistor, 10W, 2.7R, $\pm 5\%$	MCPRW0AWJW27JB00
Axial Leaded Wire Wound Resistor, 10W, 3R, $\pm 5\%$	MCPRW0AWJW30JB00
Axial Leaded Wire Wound Resistor, 10W, 3.3R, $\pm 5\%$	MP006113
Axial Leaded Wire Wound Resistor, 10W, 3.9R, $\pm 5\%$	MP006114
Axial Leaded Wire Wound Resistor, 10W, 4.7R, $\pm 5\%$	MP006115
Axial Leaded Wire Wound Resistor, 10W, 5.1R, $\pm 5\%$	MP006116
Axial Leaded Wire Wound Resistor, 10W, 5.6R, $\pm 5\%$	MCPRW0AWJW56JB00
Axial Leaded Wire Wound Resistor, 10W, 6.8R, $\pm 5\%$	MP006118
Axial Leaded Wire Wound Resistor, 10W, 7.5R, $\pm 5\%$	MCPRW0AWJW75JB00
Axial Leaded Wire Wound Resistor, 10W, 8.2R, $\pm 5\%$	MP006119

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# Cement Fixed Resistors

## Axial Leaded

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Description	Part Number
Axial Leaded Wire Wound Resistor, 10W, 10R, $\pm 5\%$	MCPRW0AWJW100B00
Axial Leaded Wire Wound Resistor, 10W, 12R, $\pm 5\%$	MP006121
Axial Leaded Wire Wound Resistor, 10W, 15R, $\pm 5\%$	MP006122
Axial Leaded Wire Wound Resistor, 10W, 18R, $\pm 5\%$	MP006123
Axial Leaded Wire Wound Resistor, 10W, 20R, $\pm 5\%$	MCPRW0AWJW200B00
Axial Leaded Wire Wound Resistor, 10W, 22R, $\pm 5\%$	MP006124
Axial Leaded Wire Wound Resistor, 10W, 27R, $\pm 5\%$	MCPRW0AWJW270B00
Axial Leaded Wire Wound Resistor, 10W, 30R, $\pm 5\%$	MCPRW0AWJW300B00
Axial Leaded Wire Wound Resistor, 10W, 33R, $\pm 5\%$	MP006126
Axial Leaded Wire Wound Resistor, 10W, 39R, $\pm 5\%$	MP006127
Axial Leaded Wire Wound Resistor, 10W, 39R, $\pm 5\%$	MCPRW0AWJW390B00
Axial Leaded Wire Wound Resistor, 10W, 43R, $\pm 5\%$	MCPRW0AWJW430B00
Axial Leaded Wire Wound Resistor, 10W, 47R, $\pm 5\%$	MCPRW0AWJW470B00
Axial Leaded Wire Wound Resistor, 10W, 56R, $\pm 5\%$	MCPRW0AWJW560B00
Axial Leaded Wire Wound Resistor, 10W, 68R, $\pm 5\%$	MCPRW0AWJW680B00
Axial Leaded Wire Wound Resistor, 10W, 75R, $\pm 5\%$	MCPRW0AWJW750B00
Axial Leaded Wire Wound Resistor, 10W, 82R, $\pm 5\%$	MCPRW0AWJW820B00
Axial Leaded Wire Wound Resistor, 10W, 100R, $\pm 5\%$	MP006133
Axial Leaded Wire Wound Resistor, 10W, 120R, $\pm 5\%$	MP006134
Axial Leaded Wire Wound Resistor, 10W, 150R, $\pm 5\%$	MCPRW0AWJW151B00
Axial Leaded Wire Wound Resistor, 10W, 180R, $\pm 5\%$	MP006136
Axial Leaded Wire Wound Resistor, 10W, 220R, $\pm 5\%$	MP006137
Axial Leaded Wire Wound Resistor, 10W, 270R, $\pm 5\%$	MP006138
Axial Leaded Wire Wound Resistor, 10W, 330R, $\pm 5\%$	MP006139
Axial Leaded Wire Wound Resistor, 10W, 390R, $\pm 5\%$	MCPRW0AWJW391B00
Axial Leaded Wire Wound Resistor, 10W, 470R, $\pm 5\%$	MP006141
Axial Leaded Wire Wound Resistor, 10W, 560R, $\pm 5\%$	MP006142
Axial Leaded Wire Wound Resistor, 10W, 680R, $\pm 5\%$	MP006143
Axial Leaded Wire Wound Resistor, 10W, 750R, $\pm 5\%$	MCPRW0AWJW751B00
Axial Leaded Wire Wound Resistor, 10W, 820R, $\pm 5\%$	MCPRW0AWJW821B00
Axial Leaded Power Film Resistor, 10W, 1K, $\pm 5\%$	MCPRW0AWJP102B00
Axial Leaded Power Film Resistor, 10W, 1.2K, $\pm 5\%$	MP006067
Axial Leaded Power Film Resistor, 10W, 1.5K, $\pm 5\%$	MP006068
Axial Leaded Power Film Resistor, 10W, 1.8K, $\pm 5\%$	MP006069
Axial Leaded Power Film Resistor, 10W, 2.2K, $\pm 5\%$	MP006070
Axial Leaded Power Film Resistor, 10W, 2.7K, $\pm 5\%$	MP006071
Axial Leaded Power Film Resistor, 10W, 3.3K, $\pm 5\%$	MP006072
Axial Leaded Power Film Resistor, 10W, 3.9K, $\pm 5\%$	MP006073
Axial Leaded Power Film Resistor, 10W, 4.7K, $\pm 5\%$	MP006074

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# Cement Fixed Resistors

## Axial Leaded

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Description	Part Number
Axial Leaded Power Film Resistor, 10W, 5.6K, $\pm 5\%$	MP006075
Axial Leaded Power Film Resistor, 10W, 6.8K, $\pm 5\%$	MP006076
Axial Leaded Power Film Resistor, 10W, 8.2K, $\pm 5\%$	MP006077
Axial Leaded Power Film Resistor, 10W, 10K, $\pm 5\%$	MCPRW0AWJP103B00
Axial Leaded Power Film Resistor, 10W, 11K, $\pm 5\%$	MP006079
Axial Leaded Power Film Resistor, 10W, 12K, $\pm 5\%$	MP006080
Axial Leaded Power Film Resistor, 10W, 15K, $\pm 5\%$	MP006081
Axial Leaded Power Film Resistor, 10W, 18K, $\pm 5\%$	MP006082
Axial Leaded Power Film Resistor, 10W, 22K, $\pm 5\%$	MP006083
Axial Leaded Power Film Resistor, 10W, 27K, $\pm 5\%$	MP006084
Axial Leaded Wire Wound Resistor, 15W, 1R, $\pm 5\%$	MCPRW0FWJW10JB00
Axial Leaded Wire Wound Resistor, 15W, 2R, $\pm 5\%$	MCPRW0FWJW20JB00
Axial Leaded Wire Wound Resistor, 15W, 4.7R, $\pm 5\%$	MCPRW0FWJW47JB00
Axial Leaded Wire Wound Resistor, 15W, 10R, $\pm 5\%$	MCPRW0FWJW100B00
Axial Leaded Wire Wound Resistor, 15W, 27R, $\pm 5\%$	MCPRW0FWJW270B00
Axial Leaded Wire Wound Resistor, 15W, 30R, $\pm 5\%$	MCPRW0FWJW300B00
Axial Leaded Wire Wound Resistor, 15W, 47R, $\pm 5\%$	MCPRW0FWJW470B00
Axial Leaded Wire Wound Resistor, 15W, 390R, $\pm 5\%$	MCPRW0FWJW391B00
Axial Leaded Wire Wound Resistor, 15W, 430R, $\pm 5\%$	MCPRW0FWJW431B00
Axial Leaded Wire Wound Resistor, 15W, 1K, $\pm 5\%$	MCPRW0FWJW102B00
Axial Leaded Wire Wound Resistor, 20W, 3.3R, $\pm 5\%$	MCPRW020JW33JB00
Axial Leaded Wire Wound Resistor, 20W, 3.9R, $\pm 5\%$	MCPRW020JW39JB00
Axial Leaded Wire Wound Resistor, 20W, 4.7R, $\pm 5\%$	MCPRW020JW47JB00
Axial Leaded Wire Wound Resistor, 20W, 5.6R, $\pm 5\%$	MCPRW020JW56JB00
Axial Leaded Wire Wound Resistor, 20W, 8.2R, $\pm 5\%$	MCPRW020JW82JB00
Axial Leaded Wire Wound Resistor, 20W, 10R, $\pm 5\%$	MCPRW020JW100B00
Axial Leaded Wire Wound Resistor, 20W, 100R, $\pm 5\%$	MCPRW020JW101B00
Axial Leaded Wire Wound Resistor, 25W, 0.2R, $\pm 5\%$	MP006155
Axial Leaded Wire Wound Resistor, 25W, 0.22R, $\pm 5\%$	MP006156
Axial Leaded Wire Wound Resistor, 25W, 0.24R, $\pm 5\%$	MP006157
Axial Leaded Wire Wound Resistor, 25W, 0.27R, $\pm 5\%$	MP006158
Axial Leaded Wire Wound Resistor, 25W, 0.3R, $\pm 5\%$	MP006159
Axial Leaded Wire Wound Resistor, 25W, 0.33R, $\pm 5\%$	MP006160
Axial Leaded Wire Wound Resistor, 25W, 0.36R, $\pm 5\%$	MP006161
Axial Leaded Wire Wound Resistor, 25W, 0.39R, $\pm 5\%$	MP006162
Axial Leaded Wire Wound Resistor, 25W, 0.43R, $\pm 5\%$	MP006163
Axial Leaded Wire Wound Resistor, 25W, 0.47R, $\pm 5\%$	MP006164
Axial Leaded Wire Wound Resistor, 25W, 0.51R, $\pm 5\%$	MP006165
Axial Leaded Wire Wound Resistor, 25W, 0.56R, $\pm 5\%$	MP006166

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# Cement Fixed Resistors

## Axial Leaded

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Description	Part Number
Axial Leaded Wire Wound Resistor, 25W, 0.62R, $\pm 5\%$	MP006167
Axial Leaded Wire Wound Resistor, 25W, 0.68R, $\pm 5\%$	MP006168
Axial Leaded Wire Wound Resistor, 25W, 0.75R, $\pm 5\%$	MP006169
Axial Leaded Wire Wound Resistor, 25W, 0.82R, $\pm 5\%$	MP006170
Axial Leaded Wire Wound Resistor, 25W, 0.91R, $\pm 5\%$	MP006171
Axial Leaded Wire Wound Resistor, 25W, 1R, $\pm 5\%$	MP006172
Axial Leaded Wire Wound Resistor, 25W, 1.2R, $\pm 5\%$	MP006173
Axial Leaded Wire Wound Resistor, 25W, 1.5R, $\pm 5\%$	MP006174
Axial Leaded Wire Wound Resistor, 25W, 2R, $\pm 5\%$	MCPRW025JW20JB00
Axial Leaded Wire Wound Resistor, 25W, 2.2R, $\pm 5\%$	MP006176
Axial Leaded Wire Wound Resistor, 25W, 2.7R, $\pm 5\%$	MCPRW025JW27JB00
Axial Leaded Wire Wound Resistor, 25W, 3R, $\pm 5\%$	MCPRW025JW30JB00
Axial Leaded Wire Wound Resistor, 25W, 3.3R, $\pm 5\%$	MP006179
Axial Leaded Wire Wound Resistor, 25W, 3.9R, $\pm 5\%$	MCPRW025JW39JB00
Axial Leaded Wire Wound Resistor, 25W, 4.7R, $\pm 5\%$	MCPRW025JW47JB00
Axial Leaded Wire Wound Resistor, 25W, 5.1R, $\pm 5\%$	MP006182
Axial Leaded Wire Wound Resistor, 25W, 5.6R, $\pm 5\%$	MP006183
Axial Leaded Wire Wound Resistor, 25W, 6.8R, $\pm 5\%$	MCPRW025JW68JB00
Axial Leaded Wire Wound Resistor, 25W, 8.2R, $\pm 5\%$	MP006185
Axial Leaded Wire Wound Resistor, 25W, 10R, $\pm 5\%$	MP006186
Axial Leaded Wire Wound Resistor, 25W, 15R, $\pm 5\%$	MCPRW025JW150B00
Axial Leaded Wire Wound Resistor, 25W, 20R, $\pm 5\%$	MCPRW025JW200B00
Axial Leaded Wire Wound Resistor, 25W, 27R, $\pm 5\%$	MCPRW025JW270B00
Axial Leaded Wire Wound Resistor, 25W, 30R, $\pm 5\%$	MCPRW025JW300B00
Axial Leaded Wire Wound Resistor, 25W, 39R, $\pm 5\%$	MP006191
Axial Leaded Wire Wound Resistor, 25W, 47R, $\pm 5\%$	MP006192
Axial Leaded Wire Wound Resistor, 25W, 62R, $\pm 5\%$	MP006193
Axial Leaded Wire Wound Resistor, 25W, 75R, $\pm 5\%$	MP006194
Axial Leaded Wire Wound Resistor, 25W, 82R, $\pm 5\%$	MCPRW025JW820B00
Axial Leaded Wire Wound Resistor, 25W, 100R, $\pm 5\%$	MCPRW025JW101B00
Axial Leaded Wire Wound Resistor, 25W, 120R, $\pm 5\%$	MP006196
Axial Leaded Wire Wound Resistor, 25W, 150R, $\pm 5\%$	MP006197
Axial Leaded Wire Wound Resistor, 25W, 180R, $\pm 5\%$	MP006198
Axial Leaded Wire Wound Resistor, 25W, 220R, $\pm 5\%$	MP006199
Axial Leaded Wire Wound Resistor, 25W, 270R, $\pm 5\%$	MP006200
Axial Leaded Wire Wound Resistor, 25W, 330R, $\pm 5\%$	MCPRW025JW331B00
Axial Leaded Wire Wound Resistor, 25W, 390R, $\pm 5\%$	MP006202
Axial Leaded Wire Wound Resistor, 25W, 470R, $\pm 5\%$	MCPRW025JW471B00
Axial Leaded Wire Wound Resistor, 25W, 560R, $\pm 5\%$	MP006204

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# Cement Fixed Resistors

## Axial Leaded

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Description	Part Number
Axial Leaded Wire Wound Resistor, 25W, 680R, $\pm 5\%$	MP006205
Axial Leaded Wire Wound Resistor, 25W, 820R, $\pm 5\%$	MCPRW025JW821B00
Axial Leaded Wire Wound Resistor, 25W, 1K, $\pm 5\%$	MCPRW025JW102B00
Axial Leaded Wire Wound Resistor, 25W, 1.2K, $\pm 5\%$	MP006208
Axial Leaded Power Film Resistor, 25W, 1.5K, $\pm 5\%$	MP006145
Axial Leaded Power Film Resistor, 25W, 1.8K, $\pm 5\%$	MP006146
Axial Leaded Power Film Resistor, 25W, 2.2K, $\pm 5\%$	MP006147
Axial Leaded Power Film Resistor, 25W, 2.3K, $\pm 5\%$	MP006148
Axial Leaded Power Film Resistor, 25W, 2.7K, $\pm 5\%$	MP006149
Axial Leaded Power Film Resistor, 25W, 3.9K, $\pm 5\%$	MP006150
Axial Leaded Power Film Resistor, 25W, 4.7K, $\pm 5\%$	MP006151
Axial Leaded Power Film Resistor, 25W, 5.6K, $\pm 5\%$	MP006152
Axial Leaded Power Film Resistor, 25W, 6.8K, $\pm 5\%$	MP006153
Axial Leaded Power Film Resistor, 25W, 8.2K, $\pm 5\%$	MP006154

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