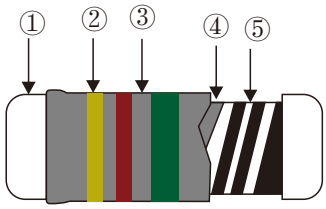
Applicable

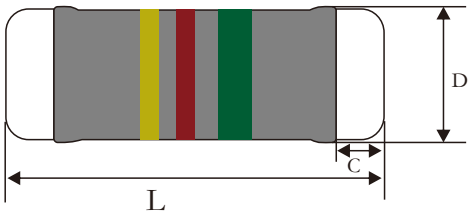
Applicable Scope: This benchmark is the supply of chargers, power supply, and other energy-saving lamps used in the coating are incombustibility wound resistor type of specifications.

Construction



①	Terminal
②	Nonflame Paint With Sol Vent-Proof)
③	Insulation Coating
④	Matrix
⑤	Wire Wrapping

Dimensions



Type	Dimensions(mm)		
	L	D	D
MBR(0207)	6.0±0.5	2.5±0.3	1.3
MBR(0309)	9.0±0.5	3.5±0.3	1.55
MBR(0410)	10.0±0.5	4.0±0.3	1.6
MBR(0411)	11.0±0.5	4.5±0.3	1.8

Power and Resistance etc

Type	Resistance Value:(Ω)	Tolerance	TCR (ppm/℃)	Max operating voltage	Withstand Voltage	Max Load Voltage
MBR(0207)	0.5R-120R	F=±1% G=±2% J=±5%,	>1.1Ω:±100PPM/℃ ≤1.1Ω:±300PPM/℃	$\sqrt{PR}$	250V	150V
MBR(0309)	0.5R-330R				250V	300V
MBR(0410)	0.5R-470R				250V	300V
MBR(0411)	0.5R-510R				250V	300V

Ordering Information

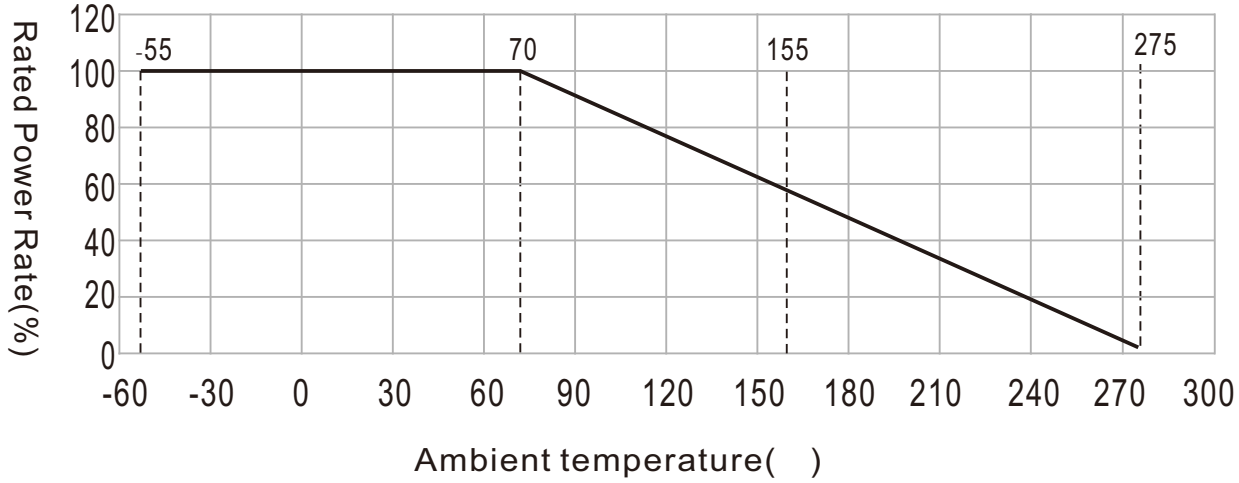
Example:

MBR	Power Rating	Tolerance	Resistance Value
MBR	0207: 1/4W、1/2WS、1WSS 0309: 1/2W、1WS、2WSS 0410: 1W、2WS、3WSS 0411: 1W、2WS、3WSS	F=±1% G=±2% J=±5%,	0207: 0.5R-120R 0309: 0.5R-330R 0410: 0.5R-470R 0411: 0.5R-510R

Reference Standards

JISC5201-1

Derating Curve

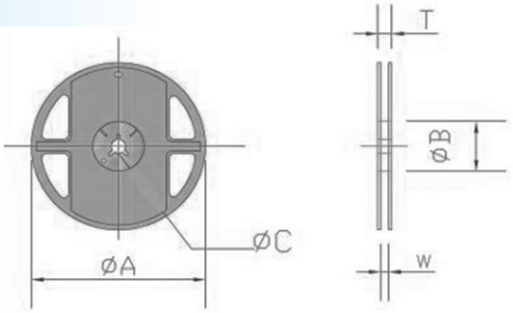


It is calculated as the following formula E= RP
However, in case the voltage calculated exceeds the maximum load voltage, such the maximum load. Voltage shall be regarded as its rated voltage, means whichever less.
E=Rated Continuous Working Voltage(V)
P=Rated Power(W)
R=Nominal Resistance Value(Ω)

Peformance

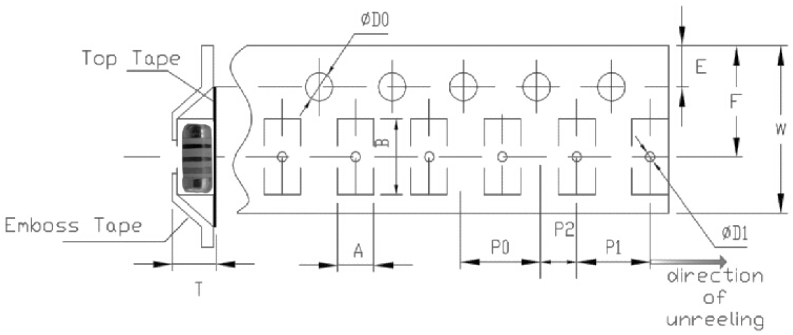
ITEM	SPECIFICATIONS	TEST METHODS (JISC5202)
DC Resistance	Allowed under R rate tolerance	
Dielectric Strength Test	No evidence of flashoo-ver mechanical damage action insulation breakdown	Resistance body placed in the v-groove, use 350 V voltage pressure 60 seconds
Solder ability	95% Surface of terminal covered solder	Into the tin stove 270 ℃ ± 10 ℃, 5s
Resistance to soldering Heat	within ±(1%+0.05Ω)	Into the tin stove 260 ℃ ± 5 ℃, 5~10s
Short time over load	±(2%+0.05Ω) Less than	2.5Times rated voltage for 5s
Load Life	Within ±(5%+0.05Ω)	70℃ 1000h Rated voltage
Resistance to solvent	No deterioration of protective coating and markings	Add thinner in 3min
Incombustibility	No evidence of flame	Ul1412 standard
Fusing character tic	Fusing time is within 60s	Rated power x 36

packaging



mm

Type	ΦA	ΦB	ΦC	W	T
0207	330. 0±1. 5	100. 0+1. 0	13. 0±0. 5	13. 0±0. 5	17.0±0. 5
0309	330. 0±1. 5	100. 0+1. 0	13. 0±0. 5	17. 0±0. 5	21. 0±0. 5
0410	330. 0±1. 5	100. 0+1. 0	13. 0±0. 5	17. 0±0. 5	21. 0±0. 5
0411	330. 0±1. 5	100. 0+1. 0	13. 0±0. 5	25. 0±0. 5	27. 0±0. 5



mm

Type	A	B	W	E	F	P_0	P_1	P_2	ΦD_0	T
0207	2.4±0.1	6.3±0.1	12.0±0.1	1.75±0.1	5.5±0.1	4.0±0.1	4.0±0.1	2.0±0.1	1.5±0.1	2.5±0.1
0309	3.3±0.1	9.0±0.1	16.0±0.3	1.75±0.1	7.5±0.1	4.0±0.1	8.0±0.1	2.0±0.1	1.5±0.1	3.0±0.1
0410	1.3±0.1	10.5±0.1	16.0±0.3	1.78±0.1	9.2±0.1	4.0±0.1	8.0±0.1	4.0±0.1	1.5±0.1	4.5±0.1
0411	4.75±0.1	11.7±0.1	25.0±0.3	1.78±0.1	13±0.1	4.0±0.1	8.0±0.1	2.0±0.1	1.5±0.1	5.0±0.1