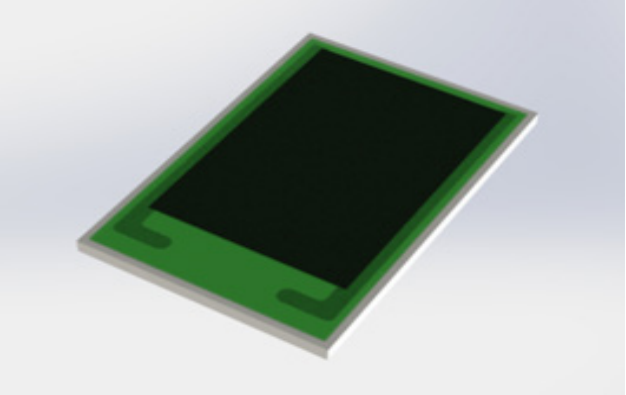
SMD Power Chip Resistors

Series SC-55

Innovation in Motion



Features

- Low profile SMD thick film resistor
- TO-263 footprint
- Perfectly suited for automotive applications with a temperature range from -55°C to +175°C
- Ideal for high frequency pulsed applications, snubber, gate control, bleeder, filter, rush current protection, PV, UPS and motor control inverters

Technical Specifications

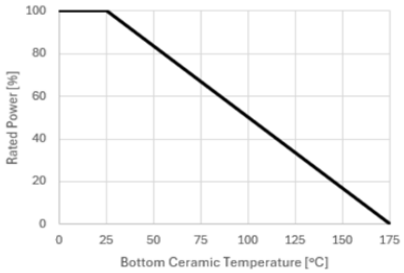
Resistance value	500 mΩ ≤ 1 KΩ (higher values upon request) (measured at +25°C ± 3°C)
Resistance tolerance	±0.5 % to ±10 % (other values on special request) (measured at +25°C ± 3°C)
Temperature coefficient	< 2 Ω: ±500 ppm/°C 2 Ω to 10 Ω: ±250 ppm/°C > 10 Ω: ±100 ppm/°C
Rated Power	55 W at < 25°C at bottom ceramic
Maximum operating voltage	900 V (not exceeding max. power)
Withstanding voltage	1500 V AC (method: terminal and back metal, 60 sec. 1mA)
Load life	±1 % (method: 25°C, 90 min. ON, 30 min. OFF, 1000h)
Humidity	±1 % (method: 85°C, 85% RH, DC 0.25 W, 1000h)
Temp. cycle	± 0.5% (method: -55°C, 30 min.,+125°C, 30 min., 1000cycle)
Solder heat	±0.1 % (method: 260°C ± 5°C, 10 ± 1 sec.)
Lead solderability	over 95% of surface (230° ± 5°C, 3 sec.)
Insulation resistance	over 1000 MΩ (between terminals and back metal)
Vibration	±0.25 % (MIL-STD-202, Method 204)
Operating temperature range ambient	-55°C to +175°C
Transport conditions	15-60 % rel. humidity (12 weeks -30°C to +90°C)
Storage conditions	15-60 % rel. humidity (-30°C to +70°C)
Weight	< 0.4 g

How to make a request

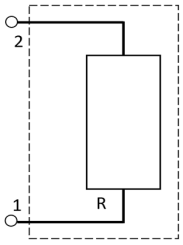
SC-55_Ohmic Value_Tolerance

For example:
SC-55 90R 5%

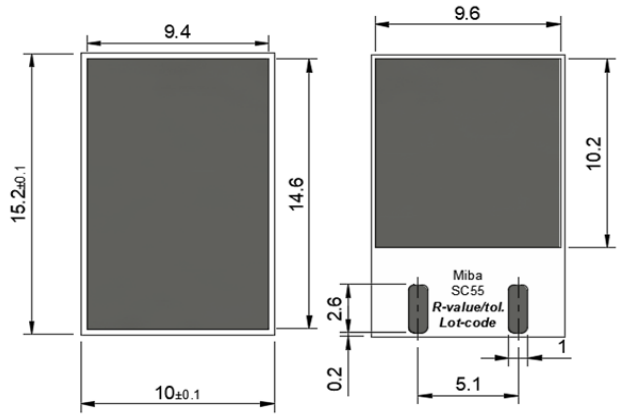
Derating Curve



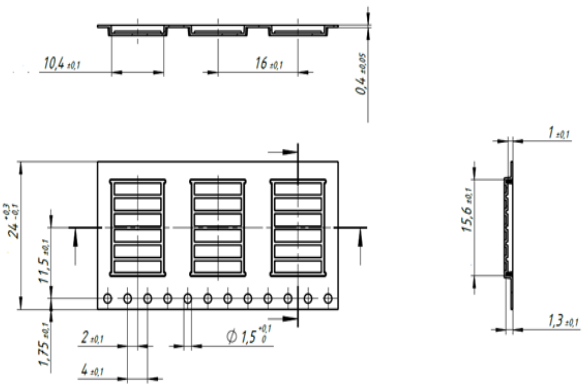
Circuit diagram



Dimensions in mm



Tape and Reel Measurements



The above spec. sheet features our standard products. For further options please contact your local Miba Resistors representative

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