

High Power Shunt Resistors (SOT-227)

Preliminary Version

The CS227 is a metal foil, SOT227 resistor designed to give a high current capability. The metal foil element is situated on an insulated heatsink composed of plated copper. This assembly is then mounted into a durable plastic housing and sealed with high temperature epoxy. This product features: Four terminals for precise circuits, vibration proof, good insulation, compact size and easy bolt mounting.



GENERAL SPECIFICATIONS

Model	Resistance Range[Ω]	Power Rating[W]	TCR[ppm/°C] (20°C to 60°C)	Resistance Tolerance(%)	Maximum Current[A]
CS227	1mΩ, 2mΩ, 3mΩ, 4mΩ, 5mΩ	25W	Max. ±50	F [±1], G [±2] J [±5]	158A

CHARACTERISTICS

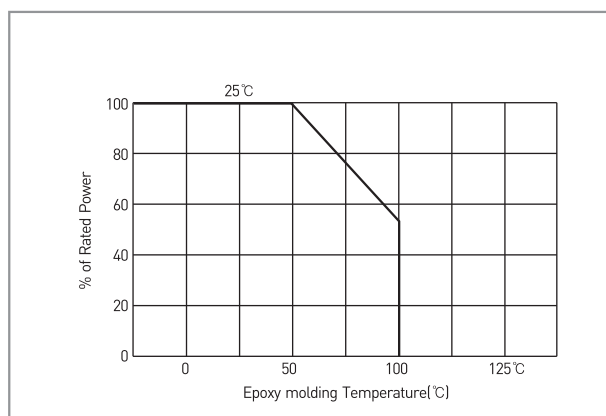
Temperature Range	-55°C ~ +100°C
Dielectric Withstanding Voltage	AC 1000V for 1minute
Internal Heat Resistance	R < 2.5°C/W
Inductance	5nH
Load Life	Deviation < 2% after 500hours

DIMENSIONS [mm] AND STRUCTURE

Schematics

Symbol	A	B	C	D	E	F	G	H
(mm)	38±0.5	25±0.5	10±0.5	30±0.2	15±0.5	13±0.5	2 - 4.2	4 - M4.0

DERATING CURVE



ORDERING PROCEDURE EXAMPLE

CS227

↓

Model #

1mΩ

↓

Resistance

F

↓

Tolerance