

## CS30(SMD) METAL STRIP SHUNT RESISTORS FOR ELECTRICAL CURRENT DETECTION



These are durable, surface mounted, low inductance, low profile, low inductance metal plate resistors capable of handling large pulses. Standard characteristics include a 5% tolerance and a TCR of 80PPM/C. Applications include: Current detection for high speed CPU peripherals, battery charging current protection, DC/DC conversion modules, DC/AC conversion, servo motor control and intelligent power modules.

### SPECIFICATIONS

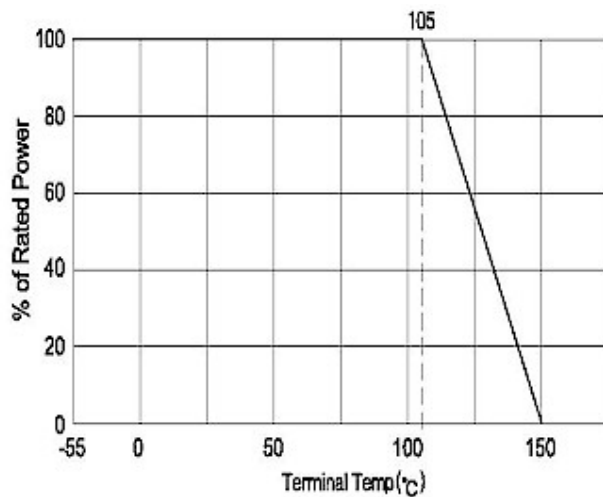
Model	Resistance [ohms]	Power Rating	Current Rating	Maximum Current	Series Inductance	TCR PPM/C	Tolerance
CS30	1.0m	3W	54A	75A	3[nH]	+ -80	+ -5%[J] + -10%[K]
	1.5m		45A	65A			
	2m		38A	54A			
	3m		31A	44A			

### CHARACTERISTICS

Values in [ ] mean change in ohmic value after test

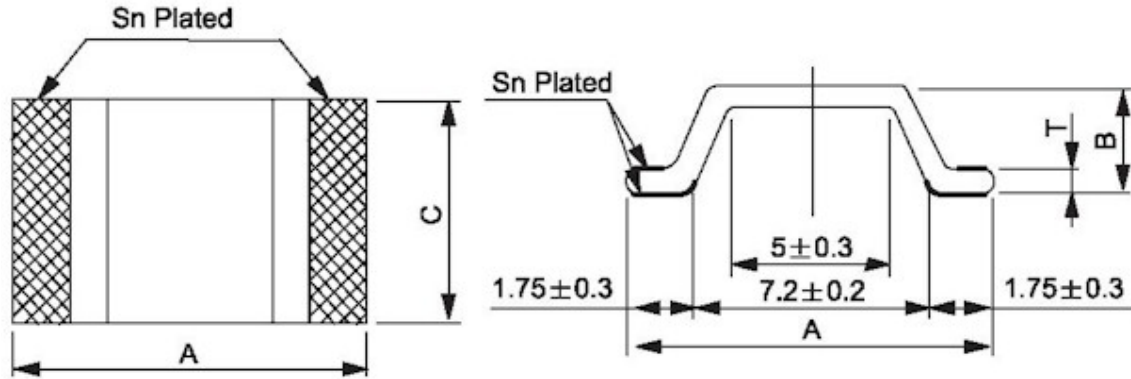
Temperature Range	-55C to +150C	
Short Time Overload	±[0.5%+0.05W]	maximum current 2.5s.
Moisture Resistance	±[0.5%+0.05W]	80C, 85%RH, DC0.1W, 1000hrs.
Thermal Shock	±[0.5%+0.05W]	55C to 125C, 20min. interval, 5min., 5 cycles
Vibration	±[0.5%+0.05W]	10-2000Hz, 1.5mm/20gr, 3hrs.
Low Temperature Storage	±[0.5%+0.05W]	-55C, 24hrs.
High Temperature Storage	±[1.0%+0.05W]	175C, 1000hrs.
Soldering Heat	±[0.25%+0.05W]	260C+-5C, 10+-1s.
Solderability		90% terminal surface
Load Life	±[0.5%+0.05W] 5C, DC power rating, 90min. ON, 30min. OFF, 1000hrs.	

### DERATING



**DIMENSIONS**

Model	Resistance [ohms]	Dimensions [mm]			
		A	B	C	D
CS30	1.0mohm	10.7+-0.5	2.9+-0.3	5.8+-0.3	0.8
	1.5mohm			6.5+-0.3	0.5
	2.0mohm			4.6+-0.3	0.5
	3.0mohm			3.2+-0.3	0.5



**ORDERING PROCEDURE EXAMPLE**

