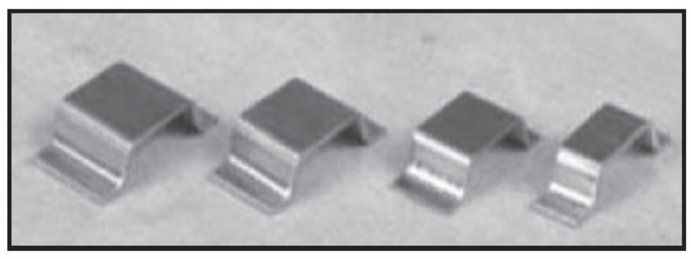
# CS30

RoHS COMPLIANT

# Preliminary version Metal Strip Shunt Resistor for Detecting Eletrical Current

These are durable, surface mounted, low resistance, 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.



## ■ GENERAL SPECIFICATIONS

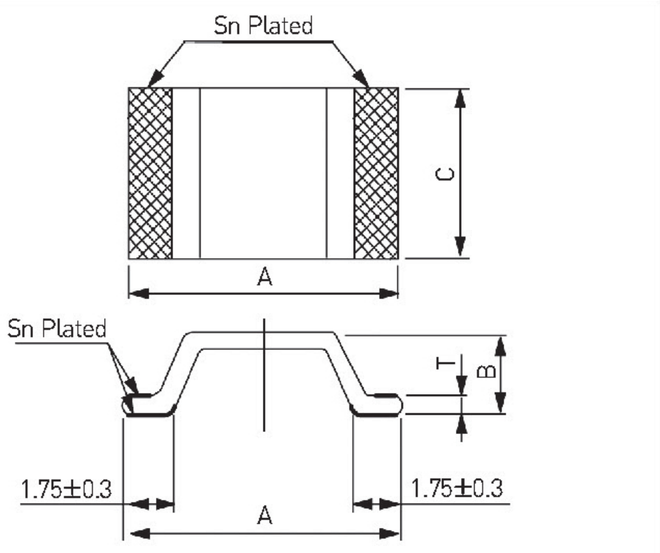
| Model | Resistance[Ω] | Power Rating | Current Rating | Max. Current [2.5sec one time] | Series Inductance | TCR[ppm/℃] | Tolerance |
|---|---|---|---|---|---|---|---|
| CS30 | 1.0m | 3W | 54A | 81A | 3[nH] | ±80 (20℃-105℃) | J [±5%] K [±10%] |
| | 1.5m | | 45A | 65A | | | |
| | 2m | | 38A | 57A | | | |
| | 3m | | 31A | 46A | | | |

* Designed to suit your request

## ■ CHARACTERISTICS

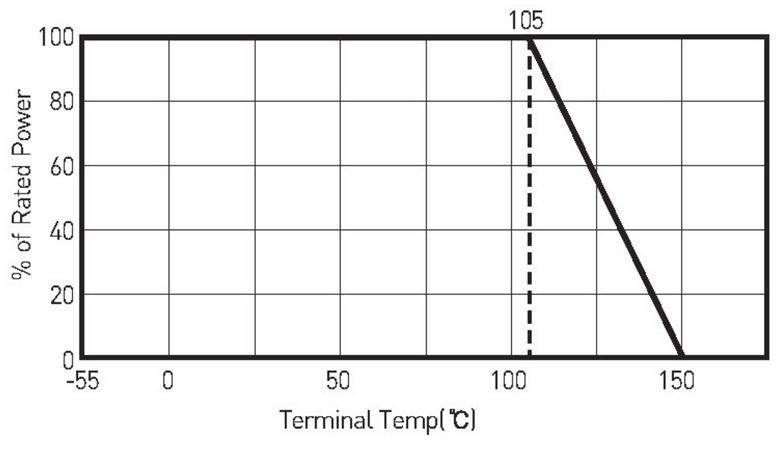
| | | |
|---|---|---|
| Temperature Range | | -55℃ ~150℃ |
| Short Time Overload | ±[0.5%] | maximum current, 2.5secs. |
| Moisture Resistance | ±[0.5%] | 80℃, 85%RH, DC 0.1W, 1000hours |
| Thermal Shock | ±[0.5%] | +55℃~+125℃, 20minutes interval, 5minutes 5Cycles |
| Vibration | ±[0.5%] | 10-2000Hz, 1.5mm/20gr, 2hours |
| Low Temperature Storage | ±[0.5%] | -55℃, 24hours. |
| High Temperature Storage | ±[1.0%] | +175℃, 1000hours |
| Soldering Heat | ±[0.25%] | 260℃±5℃, 10±1secs. |
| Solderability | | 90% terminal surface |
| Load Life | ±[0.5%] | Rated power, 90minutes on, 30minutes off, 1000 hours |

## ■ DIMENSIONS [mm]




| Model | Resistance | Dimensions [mm] | | | |
|---|---|---|---|---|---|
| | | A | B | C | T |
| CS30 | 1.0mΩ | 10.7±0.5 | 2.9±0.3 | 5.2±0.5 | 0.8 |
| | 1.5mΩ | 10.7±0.5 | 2.9±0.3 | 6.5±0.5 | 0.5 |
| | 2.0mΩ | 10.7±0.5 | 2.9±0.3 | 4.2±0.5 | 0.5 |
| | 3.0mΩ | 10.7±0.5 | 2.9±0.3 | 3.2±0.5 | 0.5 |

## ■ DERATING CURVE




## ■ ORDERING PROCEDURE EXAMPLE