tyco Electronics

SMD Power Resistors

CGS

Type 3520 Series

Type 3520 Series

Tyco Electronics is pleased to introduce this low cost high power device, suitable for auto placement in volume, and for most applications, including high frequency operations, owing to the short lead structure. It is attractively priced and available on 7" reels of 4000 pieces.

Key Features

- 1 Watt at 70°C
- Small Size to Power Ratio
- Supplied on Tape
- Available via Distribution
- Value Marked on Resistor
- 400 Volt Maximum Overload
- 200 Volt Working Voltage
- Laboratory Kit Available
- Low Profile

Characteristics - Electrical

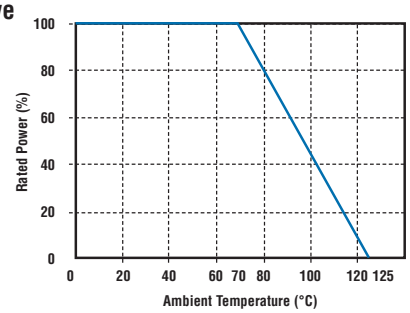
Power Rating:	1 Watt at 70°C**
Max. RCWV*:	200V
Max. Overload Voltage:	400V
Resistance Tolerance(%):	±5%
Resistance Range:	1R0 - 1M0
Temperature Coefficient:	±200ppm ±350ppm**(below 10R)
Resistance Grid Value:	E-24

* Rated continuous working voltage (RCWV) shall be determined from

RCWV = $\sqrt{\text{Rated Power x Resistance Value}}$, or Maximum RCWV listed above, whichever is less

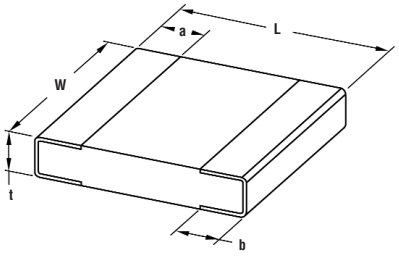
** Recommended Circuit Board Design - If this device is anticipated to run at full continuous power then action to improve the cooling should be taken. This can be a metal substrate, copper pad left under the chip, an opening in the PCB or enlarged silver conductor pads each end.

Power Derating Curve



When the ambient temperature exceeds 70°C, reduce the rated power and current in accordance with the derating curve.

Dimensions



L	W	a	b	t
6.40 ±0.20	3.20 ±0.20	0.70 ±0.10	0.70 ±0.20	0.60 ±0.10

Handling Recommendations

When flow soldering - the land width must be smaller than the Chip Resistor width to properly control the solder application. Generally, the land width can be Chip Resistor width (W) x 0.7 to 0.8. When reflow soldering - solder application amount can be adjusted. Thus the land width can be set to W x 1.0 to 1.3

How to Order

3520	1K0	J	T
Common Part	**Resistance Value**	**Tolerance**	**Pack Style**
3520	1 ohm 1000 milli ohms 1R0 1K ohm 1000 ohms 1K0 1 Meg ohm 1000000 ohms 1M0	J - 5%	T - 4000 / reel

Literature No. 1773139
Issued: 04-05

Dimensions are shown for reference purposes only.

Dimensions are in millimetres unless otherwise specified.

Specifications subject to change.

www.tycoelectronics.com
passives.tycoelectronics.com