Type 3521 Series

Key Features

- 2 Watts at 70°C
- Small Size to Power Ratio
- Supplied on Tape
- Available via Distribution
- Value Marked on Resistor
- 500 Volt Maximum Overload
- 250 Volt Working Voltage
- Low Profile
- Terminal Finish - Matte Sn over Ni
- MSL Level 2

TE Connectivity 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.

Characteristics - Electrical

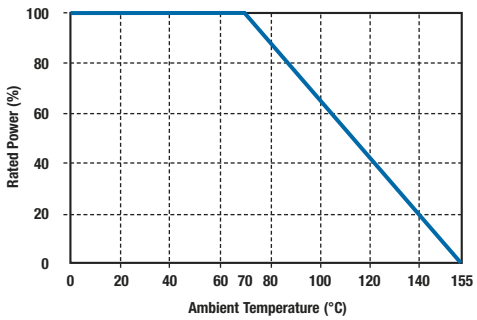
Power Rating:	2 Watts at 70°C**
Max. RCWV*:	250V
Max. Overload Voltage:	500V
Resistance Tolerance(%):	±1%
Resistance Range:	1R0 - 1M0
Temperature Coefficient:	<10R = ±200PPM 10R – 1M0 = ±100PPM >1M0 = ±200PPM
Operating Temperature:	-55°C – 155°C

* 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



For resistors operated in ambient temperatures above 70°C, power rating must be derated in accordance with this curve.

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are standard equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

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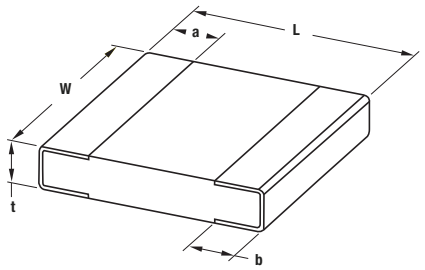
Dimensions



L	W	a	b	t
6.30 ±0.20	3.20 ±0.20	0.60 ±0.20	0.50 ±0.20	0.55 ±0.10

Marking

4 digit marking system. First three digits are significant figures of resistance, fourth denotes number of zeros eg. 3302 = 33K – 33,000Ω.
For values below 10Ω the letter R is used as decimal point eg. 1R20 = 1R2 = 1.2Ω

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

3521	1K0	F	T
Common Part	**Resistance Value**	**Tolerance**	**Pack Style**
3521	1 ohm 1000 milli ohms 1R0 1K ohm 1000 ohms 1K0 1 Meg ohm 1000000 ohms 1M0	F - 1%	T - 4000 / reel

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TE Connectivity:
3521110KFT 3521180RFT 352118KFT 3521470KFT 35211M0FT 35215K1FT 35217K5FT 3521200KFT 352112RFT