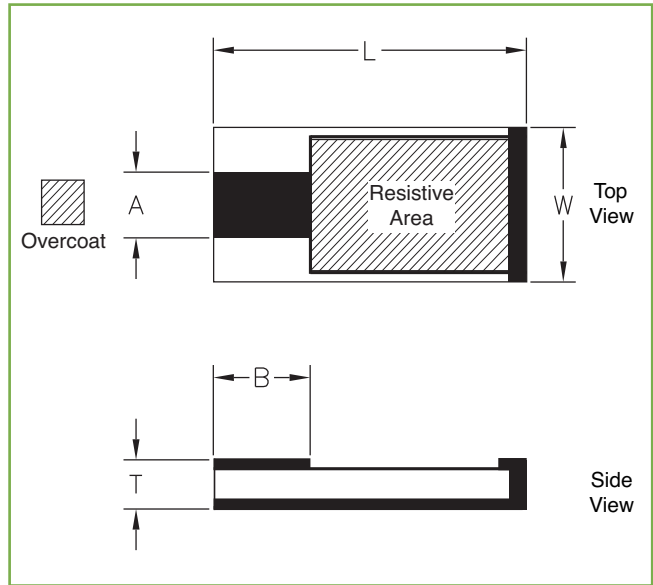


## Chip Terminations

### Style CT1

#### General Specifications

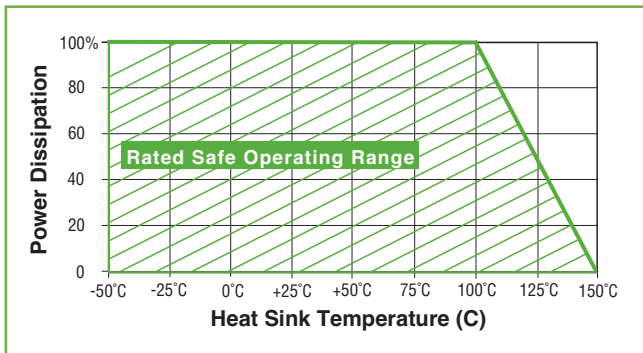
- **Nominal Impedance:** 50 Ω
- **Resistive Tolerance:** ±5% standard, ±2% available
- **Operating Temp Range:** -55 to +150°C
- **Temperature Coefficient:** ±150 ppm/°C
- **Resistive Elements:** Tantalum, Thin Film Processed
- **Substrate Material:** Aluminum Nitride
- **Terminals:** Silver over Nickel
- **Lead-Free, RoHS Compliant**
- **Reliability:** MIL-PRF-55342
- **Tape and Reel Specifications:**  
See Page 39 of full Resistive Products Catalog



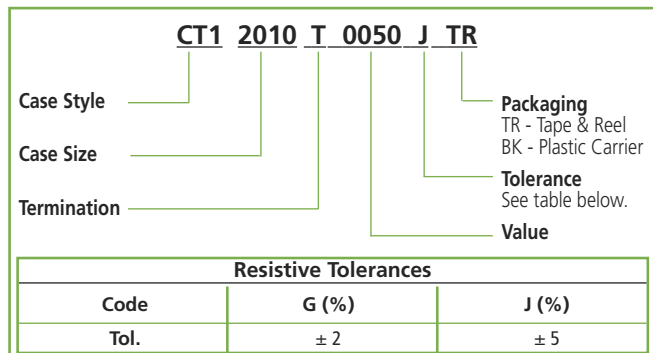
| ATC Part Number | W<br>±.010 | L<br>±.010 | T<br>±.005 | A<br>±.010 | B<br>(Typ.) | Frequency<br>(GHz) | VSWR<br>(Typ.) | Power Max*<br>(Watts) |
|-----------------|------------|------------|------------|------------|-------------|--------------------|----------------|-----------------------|
| CT11020T0050J   | .200       | .100       | .025       | .034       | .020        | DC to 18.0         | 1.25:1         | 20W                   |
| CT12010T0050J   | .100       | .200       | .040       | .050       | .060        | DC to 4.0          | 1.20:1         | 30W                   |
| CT12525T0050J   | .245       | .245       | .040       | .090       | .020        | DC to 4.0          | 1.15:1         | 60W                   |
| CT12525T0050J01 | .245       | .245       | .040       | .050       | .040        | DC to 2.5          | 1.15:1         | 100W                  |
| CT12525T0050J02 | .245       | .245       | .040       | .090       | .020        | DC to 4.0          | 1.20:1         | 100W                  |
| CT12335T0050J   | .350       | .230       | .040       | .100       | .030        | DC to 4.0          | 1.15:1         | 100W                  |
| CT13725T0050J   | .250       | .375       | .040       | .090       | .025        | DC to 4.0          | 1.20:1         | 125W                  |
| CT13725T0050J01 | .250       | .375       | .040       | .050       | .055        | DC to 1.1          | 1.20:1         | 150W                  |
| CT13725T0050J02 | .250       | .375       | .040       | .090       | .025        | DC to 4.0          | 1.25:1         | 150W                  |
| CT13737T0050J   | .370       | .370       | .040       | .120       | .025        | DC to 2.0          | 1.25:1         | 150W                  |
| CT13737T0050J01 | .370       | .370       | .040       | .130       | .065        | DC to 1.0          | 1.20:1         | 250W                  |

\* Test Condition: Chip soldered to a large copper carrier whose surface is at 100° C; maximum rated power applied.  
Specification: The resistance of the film shall change no more than <2% during and after a 1000-hr. Burn-in per Mil-PRF-55342.

## Power Derating



## ATC Part Number Code



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Excerpt from ATC # 001-944; Rev. U, 11/14

A M E R I C A N T E C H N I C A L C E R A M I C S

ATC North America  
sales@atceramics.com

ATC Europe  
sales@atceramics.com

ATC Asia  
sales@atceramics-asia.com

www.atceramics.com

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