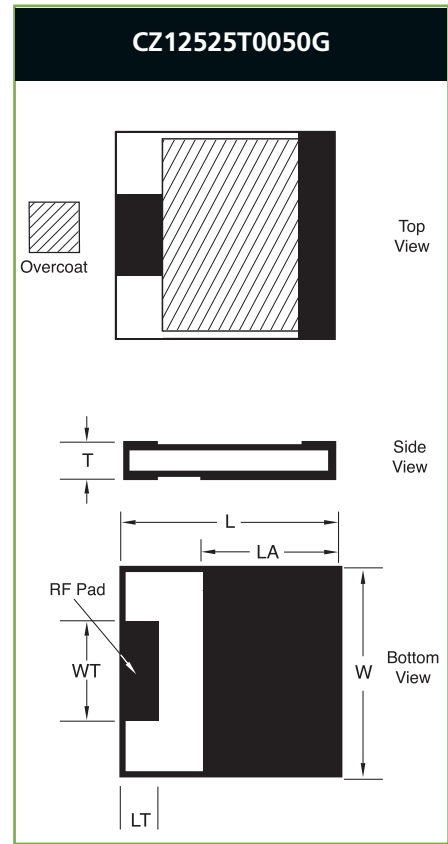
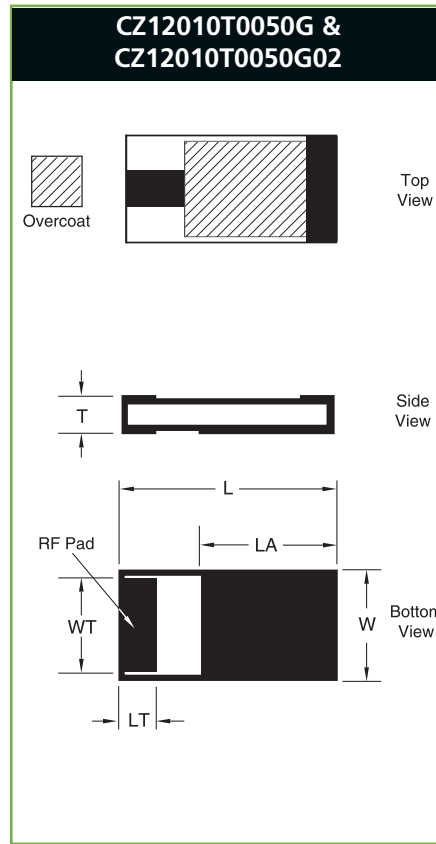


Surface Mount Chip Terminations

Style CZ1

General Specifications

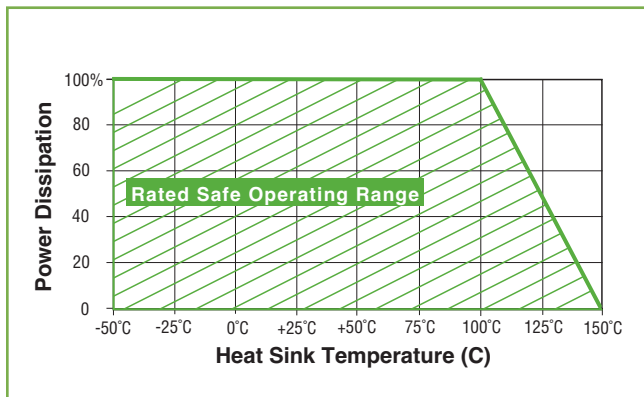
- **Nominal Impedance:** 50 Ω
- **Resistive Tolerance:** $\pm 2\%$ standard
- **Operating Temp Range:** -55 to +150°C
- **Temperature Coefficient:** ± 150 ppm/°C
- **Resistive Elements:** Tantalum, Thin Film Processed
- **Substrate Material:** Aluminum Nitride
- **Terminals:** Silver over Nickel
- **Lead-Free,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



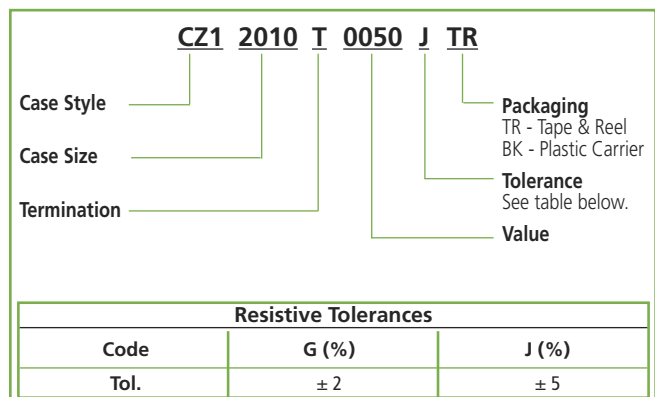
| ATC Part Number | W $\pm .010$ | L $\pm .010$ | T $\pm .005$ | LT $\pm .005$ | WT $\pm .005$ | LA $\pm .005$ | Frequency Range (GHz) | VSWR (Typ.) | Power Max* (Watts) |
|-----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|--------------------------|----------------|-----------------------|
| CZ12010T0050G | .100 | .200 | .040 | .040 | .090 | .115 | DC - 3.0 | 1.20:1 | 10W |
| CZ12010T0050G02 | .100 | .200 | .040 | .020 | .090 | .140 | DC - 3.0 | 1.20:1 | 10W |
| CZ12525T0050G | .245 | .245 | .040 | .030 | .125 | .170 | DC - 4.0 | 1.25:1 | 20W |

* Test Condition: Chip soldered to a via patch on a 30-mil-thick Rogers RO4350 board; Land surfaces at 100°C; maximum rated power applied. Specification: The resistance of the film shall change no more than 0.5% during and after a 1000-hr. Burn-in per Mil-PRF-55342.

Power Derating



ATC Part Number Code



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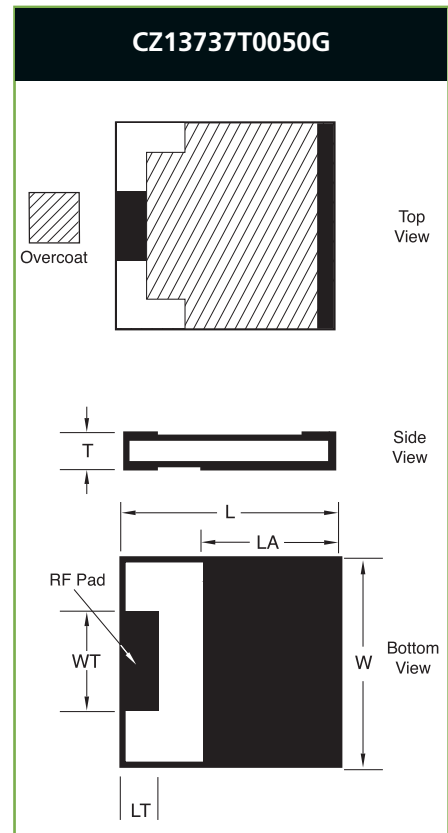
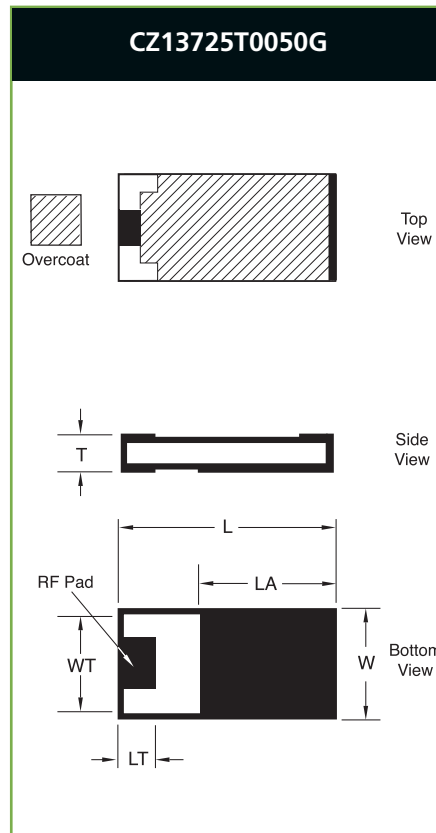
ATC Asia
sales@atceramics-asia.com

www.atceramics.com

Surface Mount Chip Terminations Style CZ1

General Specifications

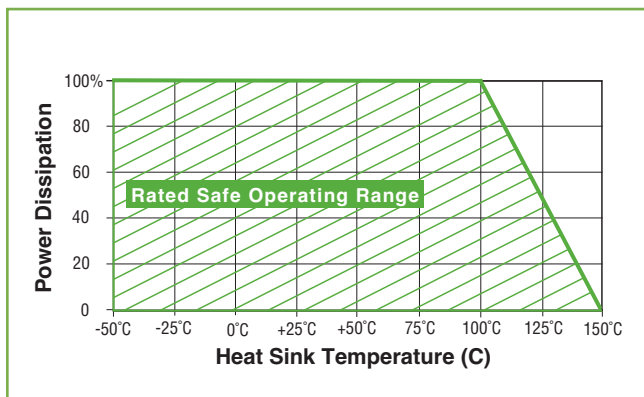
- **Nominal Impedance:** 50 Ω
- **Resistive Tolerance:** $\pm 2\%$ standard
- **Operating Temp Range:** -55 to +150°C
- **Temperature Coefficient:** ± 150 ppm/°C
- **Resistive Elements:** Tantalum, Thin Film Processed
- **Substrate Material:** Aluminum Nitride
- **Terminals:** Silver over Nickel
- **Lead-Free,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



| ATC Part Number | W $\pm .010$ | L $\pm .010$ | T $\pm .005$ | LT $\pm .005$ | WT $\pm .005$ | LA $\pm .005$ | Frequency Range (GHz) | VSWR (Typ.) | Power Max* (Watts) |
|-----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|-----------------------|-------------|--------------------|
| CZ13725T0050G | .250 | .375 | .040 | .050 | .125 | .260 | DC - 2.2 | 1.20:1 | 30W |
| CZ13737T0050G | .370 | .370 | .040 | .050 | .125 | .275 | DC - 3.0 | 1.25:1 | 40W |

* Test Condition: Chip soldered to a via patch on a 30-mil-thick Rogers RO4350 board; Land surfaces at 100° C; maximum rated power applied. Specification: The resistance of the film shall change no more than 0.5% during and after a 1000-hr. Burn-in per Mil-PRF-55342.

Power Derating



ATC Part Number Code

CZ1 2010 T 0050 J TR

Case Style ——— CZ1
Case Size ——— 2010
Termination ——— T

Value ——— 0050
Tolerance ——— J
Packaging ——— TR

Packaging
TR - Tape & Reel
BK - Plastic Carrier

Tolerance
See table below.

| Resistive Tolerances | | |
|----------------------|---------|---------|
| Code | G (%) | J (%) |
| Tol. | ± 2 | ± 5 |

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