

Anaren High Frequency Chip Resistor



Electrical Specifications:

| | Room (25 °C) | | |
|----------------------------|--------------|------|------|
| | Min. | Typ. | Max. |
| Resistance (Ω) | 47.5 | 50 | 52.5 |
| TCR (ppm / °C) | -300 | | +300 |
| Power (W) | | | 0.5 |
| Operating Temperature (°C) | -55 | | 150 |
| Frequency Range (GHz) | DC | | 17 |
| Return Loss (dB) | | | 10 |

Specifications subject to change with out notice.

Features:

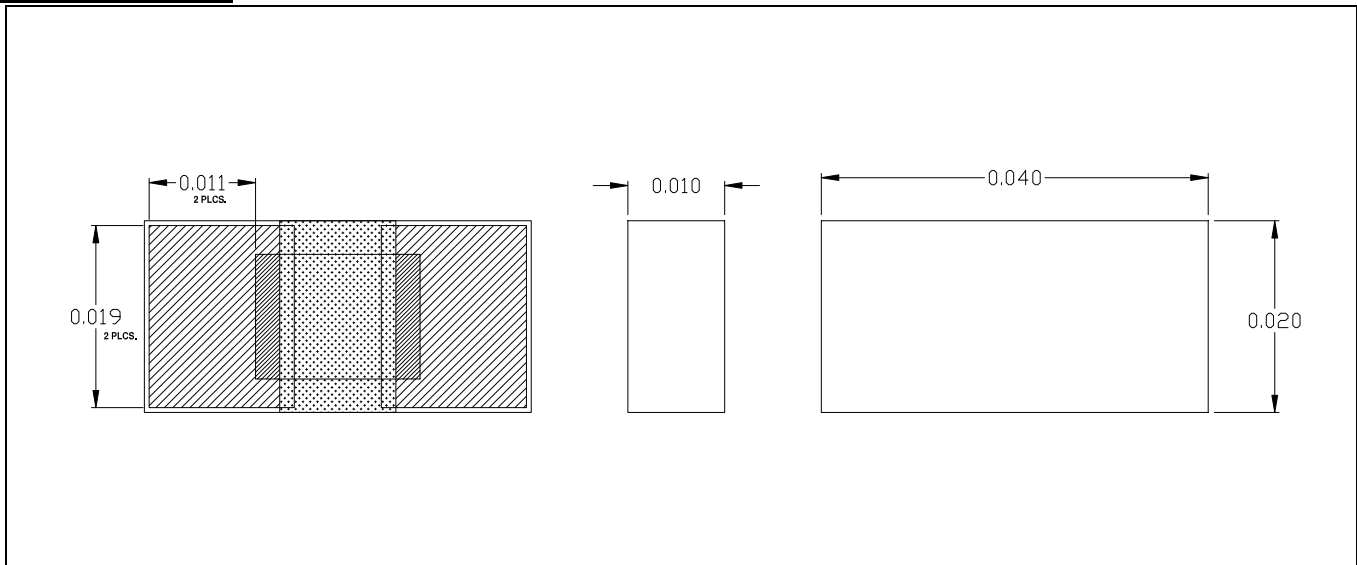
- RF Performance up to 17 GHz
- 50 Ω
- 10 mil 96 % Alumina
- Non-Nichrome Resistive Element
- Terminals: Palladium Silver
- Solder Attach
- Tolerance 5%

Description

- Thick Film chip resistor with Palladium Silver terminals.
- Base Material is 10 mil 96% Alumina.
- Other values available.

Outline Drawing

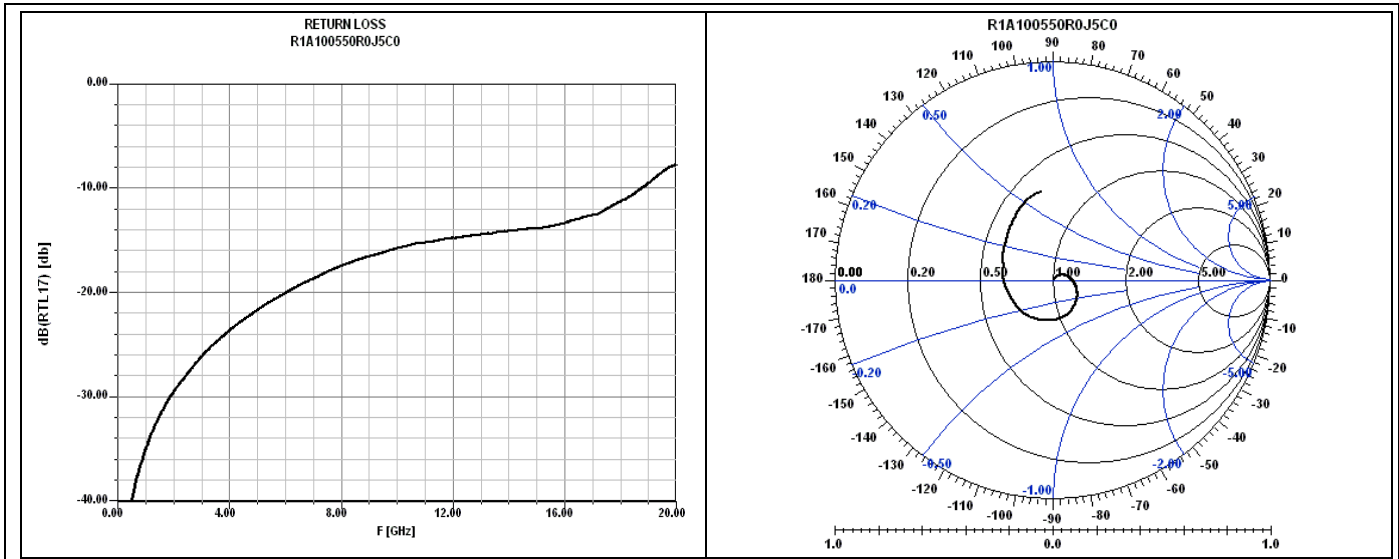
Dimensions shown in inches ± 0.002 unless otherwise shown



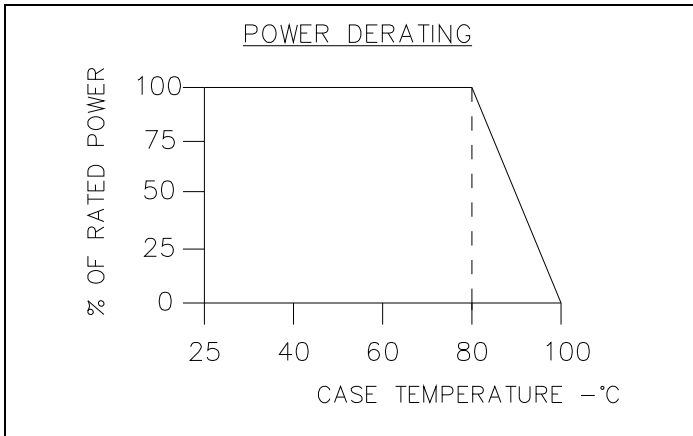
R1A100550R0J5C0 (097) Rev B



Performance Specifications:

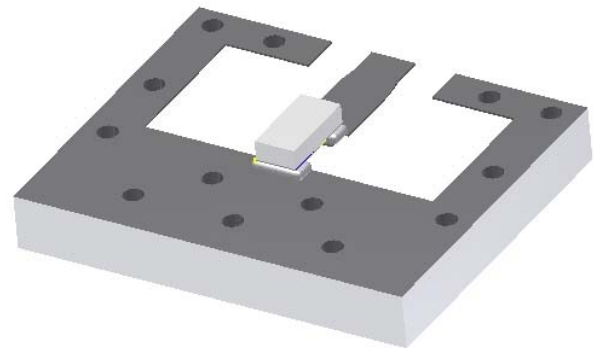


Power De-rating:



Suggested Mounting:

Solder mount using SAC solder with resistive side down



| Description of Standard Tests as specified by options in Part Number | | | |
|--|----------------------|---------|---|
| Parameter | Change in Resistance | | Test Method |
| | Limit | Typical | |
| Resistance | ± 5% | 50 Ω | Measurement at 25°C |
| T.C.R (ppm / °C) | ±300 | 65 | Measurement at +25°C to -55°C and +25°C to +125°C |
| Overload (Short Time) | ±2% | ±0.5% | Rated Voltage x 2.5 for 5 seconds |
| Thermal Shock | ±0.5% | ±0.3% | -55°C (30 minutes), +125°C (30 minutes), 100 cycles |
| Life Test | ±3% | ±1% | 70°C ± 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle |
| High Temperature Exposure | ±1% | ±0.3% | +125°C, 1000 hours +155°C, 1000 hours |

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Available on Tape and Reel For Pick and Place Manufacturing.



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