

### Anaren High Frequency Chip Resistor



#### Electrical Specifications:

|                            | Room (25 °C) |      |      |
|----------------------------|--------------|------|------|
|                            | Min.         | Typ. | Max. |
| Resistance ( $\Omega$ )    | 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:

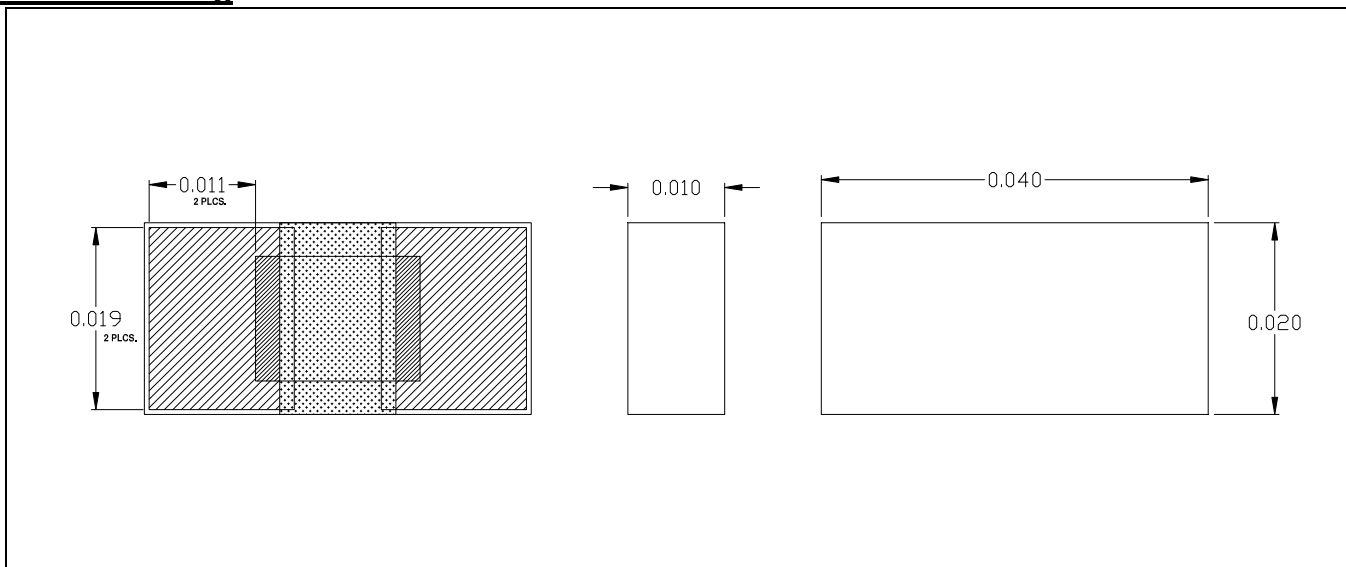
- RF Performance up to 17 GHz
- 50  $\Omega$
- 10 mil 96 % Alumina
- Non-Nichrome Resistive Element
- Terminals: Palladium Silver
- Solder Attach
- Tolerance 5%

#### Description

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

#### Outline Drawing

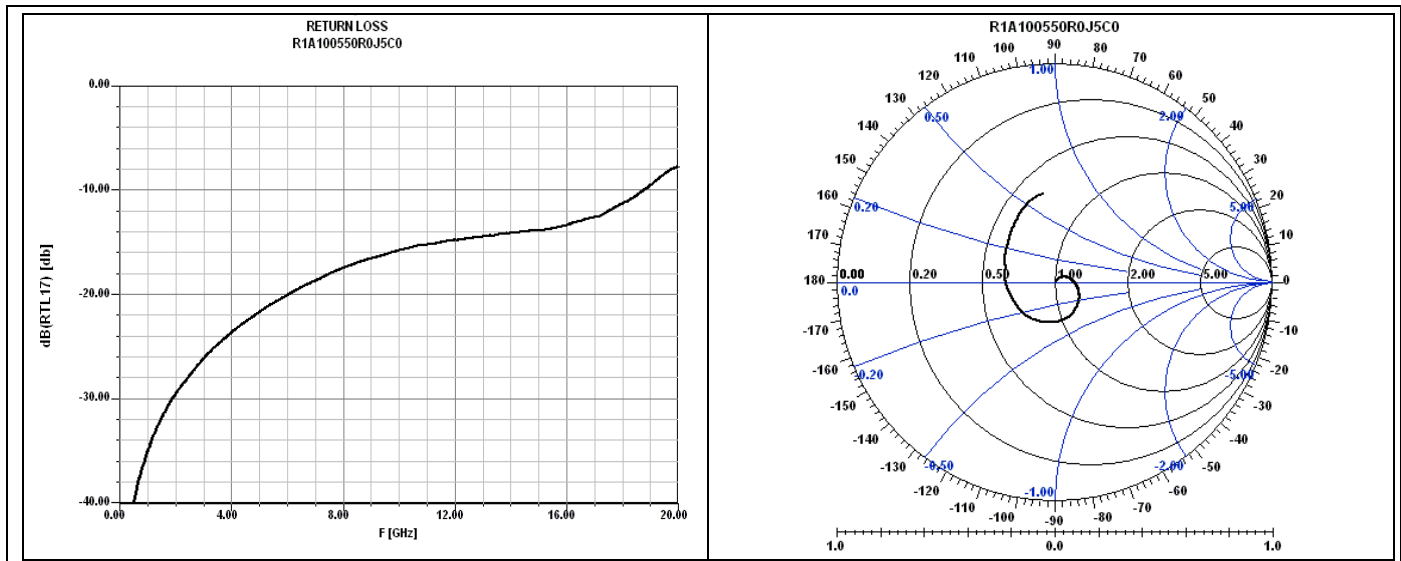
Dimensions shown in inches  $\pm 0.002$  unless otherwise shown



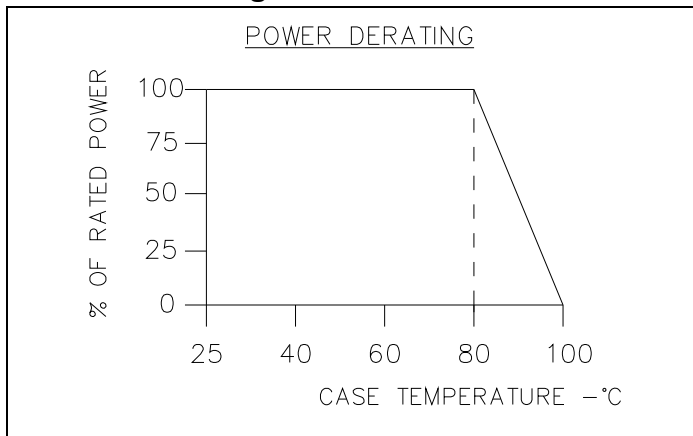
R1A100550R0J5C0 (097) Rev B



## Performance Specifications:

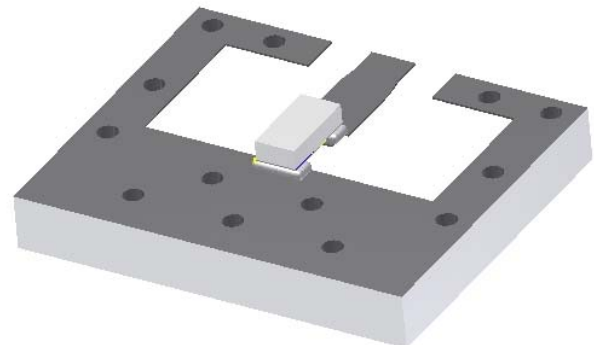


## Power De-rating:



## 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<br>+155°C, 1000 hours            |

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USA/Canada: (315) 432-8909  
Toll Free: (800) 544-2414  
Europe: +44 2392-232392

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