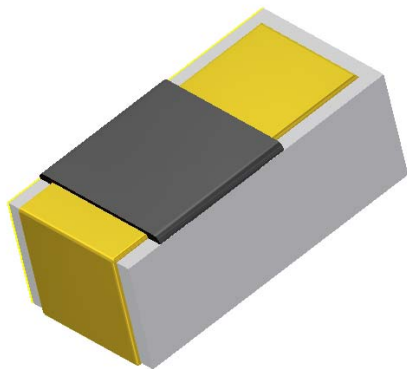


### Anaren High Frequency Chip Resistor



#### 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           |      | 5    |
| Return Loss (dB)           |              |      | 10   |

Specifications subject to change with out notice.

#### Features:

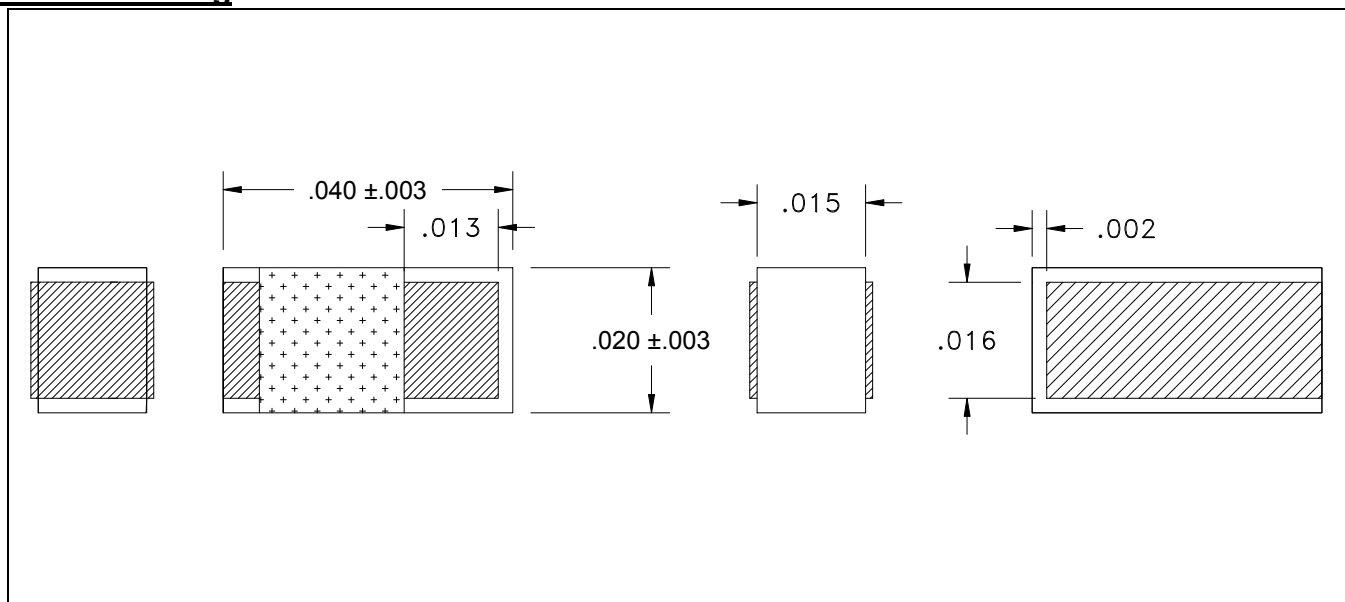
- RF performance up to 5 GHz
- 50  $\Omega$
- 15 mil 96 % Alumina
- Non-Nichrome Resistive Element
- Terminals: Gold
- Epoxy Attach
- Wire Bondable
- Tolerance 5%

#### Description

- Thick Film single wrap chip resistor with gold terminals.
- Gold terminals are wire bondable.
- Base Material is 15 mil 96% Alumina.

#### Outline Drawing

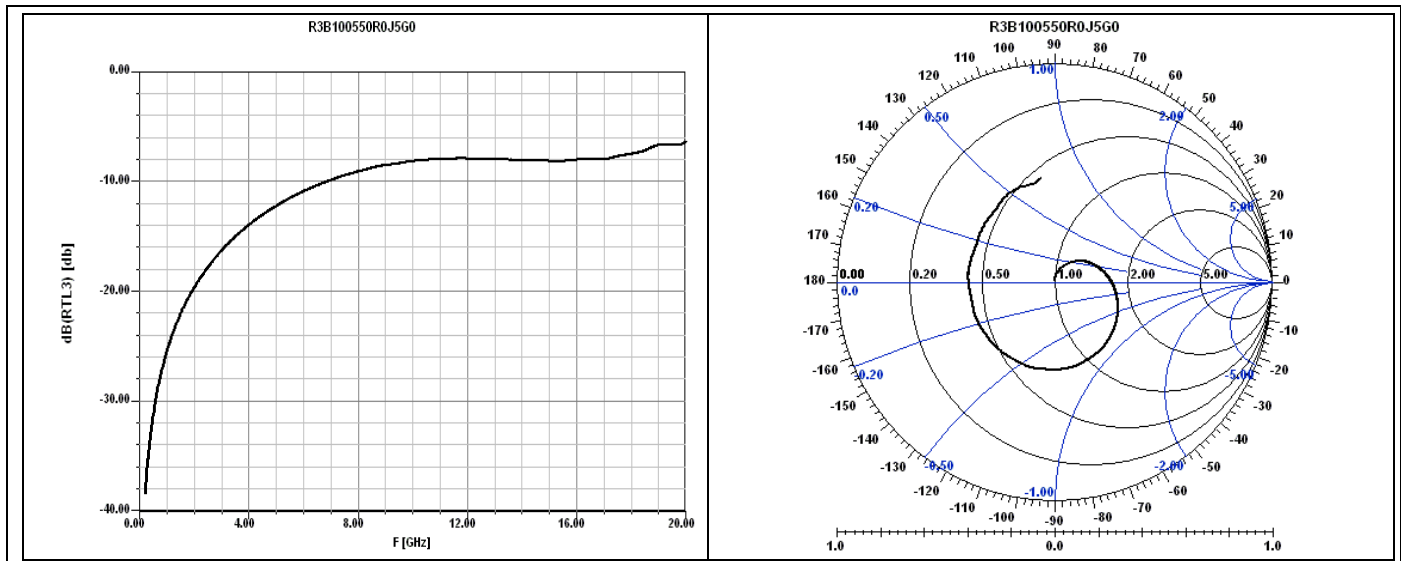
Dimensions shown in inches  $\pm 0.002$  unless otherwise shown



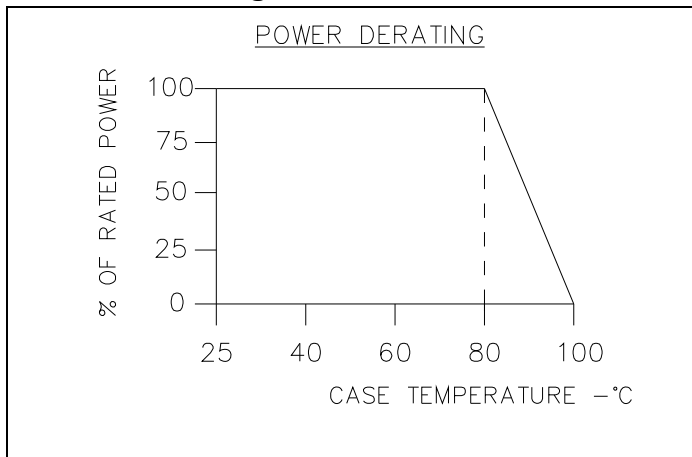
R3B100550R0J5G0 (097) Rev B



## Performance Specifications:

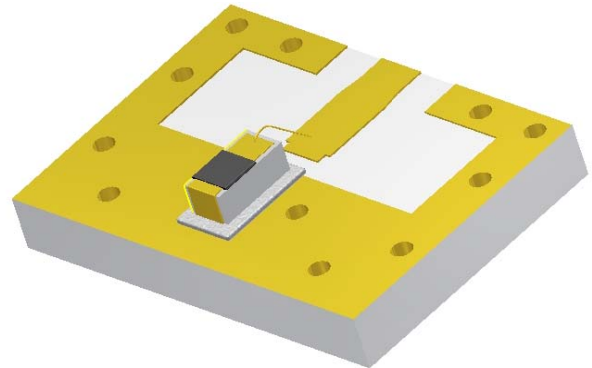


## Power De-rating:



## Suggested Mounting:

Epoxy mount bottom side to circuit.  
Gold terminal is wire bondable



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                | 165     | 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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Toll Free: (800) 544-2414  
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