RF and Frequency Powers, in water forced, in Oil, in Air

Willow offers the RF series to meet general set of requirements NON-INDUCTIVE high frequency, satisfy with an high power and Non-inductive specification at Economic Price.

**Series RF Precision Power Resistor, Non-Inductive**

High Frequency
Non Inductive Performance
Full power and various ohmic ratings

* Resistance tolerances offered from 1.0% to 10%
* Load Life Stability of 0.5% per 1000 hours.
* Various Models of Resistance Value up to Megohms available.
* Build up High Power RF Termination System: 10kW, 50kW, 300kW System in oil or water forced, required tank & chiller System.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>RF07</td>
<td>0.7</td>
<td>20R 2M</td>
<td>15(.59)</td>
<td>5.0(.196)</td>
</tr>
<tr>
<td>RF2</td>
<td>2.0</td>
<td>20R 2M</td>
<td>24.0+/−1.5 (944)</td>
<td>8.0+/−1.0 (.314)</td>
</tr>
<tr>
<td>RF3</td>
<td>3.0</td>
<td>20R 2M</td>
<td>39.0+/−1.5 (1.535)</td>
<td>8.0+/−1.0 (.314)</td>
</tr>
<tr>
<td>RF5</td>
<td>5.0</td>
<td>20R 2M</td>
<td>52.0+/−1.5 (2.047)</td>
<td>8.0+/−1.0 (.314)</td>
</tr>
<tr>
<td>RF50</td>
<td>50</td>
<td>20R 2M</td>
<td>110+/−1.5 (4.33)</td>
<td>33+/−1 (1.29)</td>
</tr>
<tr>
<td>RF100</td>
<td>100</td>
<td>20R 2M</td>
<td>210+/−1.5 (8.50)</td>
<td>33+/−1 (1.29)</td>
</tr>
<tr>
<td>RF150</td>
<td>150</td>
<td>20R 2M</td>
<td>310+/−1.5 (12.2)</td>
<td>33+/−1 (1.29)</td>
</tr>
<tr>
<td>RF200</td>
<td>200</td>
<td>20R 2M</td>
<td>310+/−1.5 (12.2)</td>
<td>42+/−1 (1.65)</td>
</tr>
</tbody>
</table>
**RF Series, High Frequency Power Resistors**

**Thick film, Non-Inductive**

**DIMENSIONS [mm]**

![Dimensions Diagram]

**SPECIFICATIONS**

** Resistance Tolerance:**
- 1%, 2%, 5%, 10%

** Temperature Coefficient:**
- Std. 100ppm/°C, referenced to 25°C, from -15°C to +105°C, other TCR available upon requests.

** Overload: **
- 5 times rated power with applied voltage not to exceed 1.5 times Max. continuous operating voltage for 5 seconds, overload/overvoltage \( \Delta R \) 0.50% typ.

** Thermal Shock:**
- Mil-Std-202, Method-107, Cond. C, \( \Delta R \) 0.50% max.

** Load Life:**
- 1,000 hours at rated power \( \Delta R \) 0.5% at DC AC. \( \Delta R \) 3.0% at repetitive pulse energy

** Moisture Resistance:**
- Mil-Std-202, Method 106, \( \Delta R \) 0.50% max.

** Lead Material:**
- RF07 ~ RF5; Tinned copper solderable wire

** Insulation Resistance:**
- 10,000 Megohms Min.

** Termination Cap of Material:**
- RF07 ~ RF5; Tinned Cap & Wire
- RF50 ~ RF200; AL alloy Cap M6.

** Encapsulation:**
- High frequency silicone conformal, Glass

**APPLICATION GUIDE: RF SERIES**

- RF Termination
- RF Dummy Load
- Wave Form Load
- High Frequency
- Charging/Discharging
- AVR, UPS
- Current dividing
- Elevators control
- Electrical Trains
- Experimentals
- High Frequency Circuits
- Inverters
- Power Braking
- Military
- Hoist Cranes
- Motor Dynamic Braking

- Industrial Vehicles
- Power Supply
- Medical Equipments
- Server Drivers
- Power Loaders
- Snubbers
- Telecomm Equipments
- Shunt
- Testing Equipments
- Inrush Current Limiters
- Preloads
- Dummy Loads
- Rectifier
- Soft Start
- EMI Suppresions

*cf.: The described specifications & dimensions subject to change without notice.*