

Series, High Frequency Power Resistors  
Thick film, Non-Inductive

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

3RLAB 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.

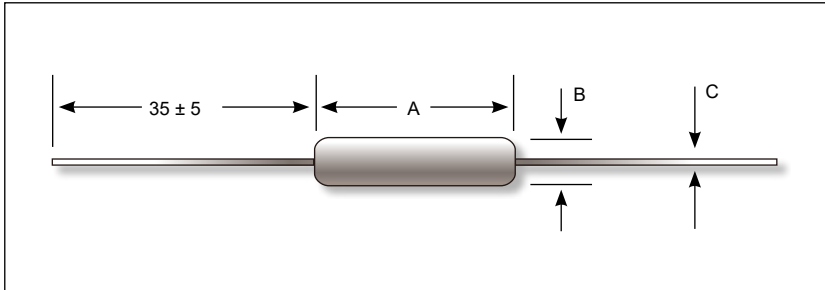
## Series RF Precision Power Resistor, Non-Inductive.

High Frequency Non Inductive Performance  
Full power and various ohmic ratings

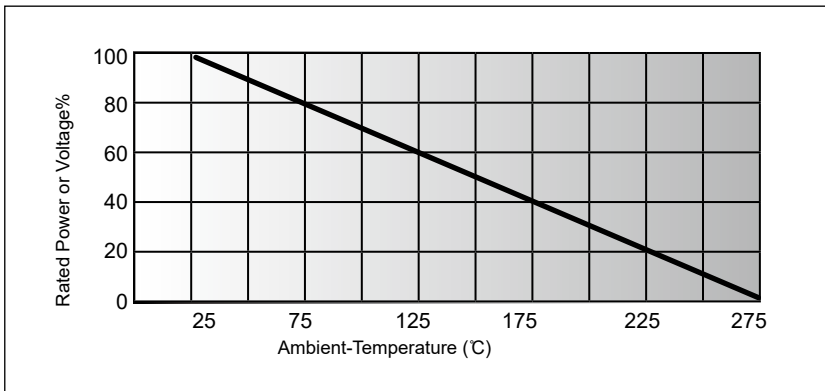
- \* Resistance tolerances offered from 1.0% to 5%
- \* Load Life Stability of 0.5% per 1000hours.
- \* Various Models of Resistance Value up to Megohms available.
- \* Build up High Power RF Termination System :  
10kW,50kW,300kW System in oil or water forced, required tank & chiller System.

Model Nr.	Watt age	Max. Cotinuou-sOper. Volt[kV]**	Resistance [ohm] Min.Max.	Dimensions in millimeters (inches)			Melf Type
				A	B	C	
RF07	0.7	2.5	20R 2M	15(.59)	5.0 (.196)	0.8	N/A
RF2	2.0	5.5	20R 2M	24.0+/-1.5 (.944)	8.0+/-1.0 (.314)	1.00	Available
RF3	3.0	10	20R 2M	39.0+/-1.5 (1.535)	8.0+/-1.0 (.314)	1.00	Available
RF5	5.0	15	20R 2M	52.0+/-1.5 (2.047)	8.0+/-1.0 (.314)	1.00	Available
RF50	50	35	20R 2M	110+/-1.5 (4.33)	32+/-1.5 (1.26)	M6 tab axial	N/A
RF100	100	70	20R 2M	210+/-1.5 (8.50)	32+/-1.5 (1.26)	M6 tab axial	N/A
RF150	150	100	20R 2M	310+/-1.5 (12.2)	32+/-1.5 (1.26)	M6 tab axial	N/A
RF250	250	100	20R 2M	310+/-1.5 (12.2)	42+/-1.5 (1.65)	M8 tab axial	N/A

## DIMENSIONS [mm]



## DERATING CURVE



## 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

## SPECIFICATIONS

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

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

**Overload :**  
5times rated power with applied voltage  
not to exceed 1.5times Max.  
continuous operating voltage for 5seconds,  
overload/overvoltage ΔR 0.50% typ.

**Thermal Shock :**  
Mil-Std-202, Method- 107,Cond.  
C, ΔR 0.50% max.

**Load Life :**  
1.000 hours at rated power ΔR 0.5% at  
DC AC. ΔR 3.0% at repetitive pulse energy

**Moisture Resistance:**  
Mil-Std-202, Method 106, ΔR 0.50% max.  
Lead Material : RF07 ~RF5 ;  
Tinned copper solderable wire

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

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

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

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