



### 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 10%
- \* 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.	Wattage	Resistance [ ohm ] Min. Max.	Dimensions in millimeters (inches)			Melf Type
			A	B	C	
RF07	0.7	20R 2M	15(.59)	5.0(.196)	0.8	N/A
RF2	2.0	20R 2M	24.0+/-1.5 (.944)	8.0+/-1.0 (.314)	1.00	Available
RF3	3.0	20R 2M	39.0+/-1.5 (1.535)	8.0+/-1.0 (.314)	1.00	Available
RF5	5.0	20R 2M	52.0+/-1.5 (2.047)	8.0+/-1.0 (.314)	1.00	Available
RF50	50	20R 2M	110+/-1.5 (4.33)	33+/-1 (1.29)	M6 tab axial	N/A
RF100	100	20R 2M	210+/-1.5 (8.50)	33+/-1 (1.29)	M6 tab axial	N/A
RF150	150	20R 2M	310+/-1.5 (12.2)	33+/-1 (1.29)	M6 tab axial	N/A
RF200	200	20R 2M	310+/-1.5 (12.2)	42+/-1 (1.65)	M6 tab axial	N/A

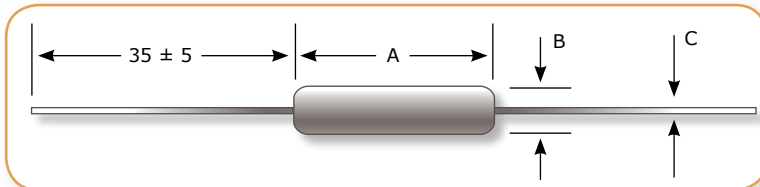
# RF Series, High Frequency Power Resistors

Thick film, Non-Inductive

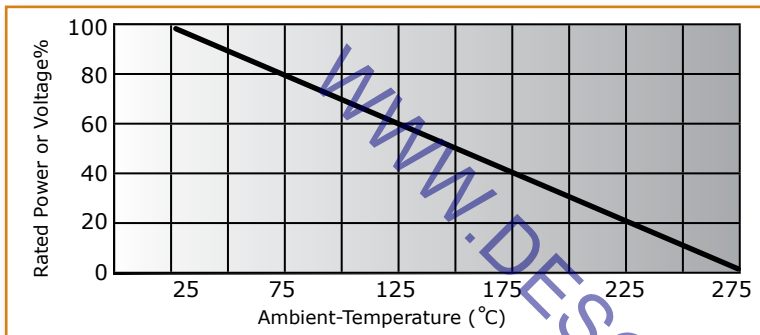


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## DIMENSIONS [mm]



## DERATING CURVE



## APPLICATION GUIDE ; RF SERIES

- |                           |                           |
|---------------------------|---------------------------|
| • RF Termination          | • Industrial Vehicles     |
| • RF Dummy Load           | • Power Supply            |
| • Wave Form Load          | • Medical Equipments      |
| • High Frequency          | • Server Drivers          |
| • Charging/Discharging    | • Power Loaders           |
| • AVR , UPS               | • Snubbers                |
| • Current dividing        | • Telecomm Equipments     |
| • Elevators control       | • Shunt                   |
| • Electrical Trains       | • Testing Equipments      |
| • Experimentals           | • Inrush Current Limiters |
| • High Frequency Circuits | • Preloads                |
| • Inverters               | • Dummy Loads             |
| • Power Braking           | • Rectifier               |
| • Military                | • Soft Start              |
| • Hoist Cranes            | • EMI Suppressions        |
| • Motor Dynamic Braking   |                           |

## 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 :

5times rated power with applied voltage not to exceed 1.5times Max. continuous operating voltage for 5seconds, 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 :

10,000Megohms 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.



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