



# DON-50 50Watt High Voltage Mountable Non-Inductive, High Frequency Resistors

## High Voltage 15kV, High Energy High Frequency Control with High Voltage Power Semiconductor's Switching, Pulsing, True Non-Inductive Powers.

DON-50, Non-Inductive design these elements are ideally suited for high frequency and high voltage pulse load applications. By direct mounting on a heatsink significant cost advantages can be realized for power Application upto 50watt.

### DON-50 Non-Inductive 50Watt Mountable, High Voltage Resistors

#### Voltage Spec.;

1R~900R ; 3.5kVp

1k $\Omega$  ~ 2M $\Omega$  ; 12kVac, 12kVdc, 15kVp



## SPECIFICATIONS

**Resistance Values** : 1R0 to 2Megohm others on request

**Resistance Tolerance** :  $\pm 10\%$  Std. ,1%,2%,5% available on request.

**Temperature Coefficient** :  $\pm 100\text{ppm}/^\circ\text{C}$  typ. (others upon request)

**Maximum Working Voltage** : 1R~900R ; 3.5kVp  
1k $\Omega$  ~ 2M $\Omega$ ;12kVac, 12kVdc, 15kVp not exceeding max. power

**Single Shot Voltage** : Up to 17kV at std. wave (1.5/50  $\mu\text{s}$ ) at 10kohms to Megohms

**Insulation Resistance** : 10G $\Omega$  min. at 1kV

**Creeping Distance** : 42mm min.

**Inductance** :  $\leq 50$  nH

**Capacity/Ground** :  $\leq 110\text{pF}$

**Capacity/Resistive** :  $\leq 40\text{pF}$

**Operation Temperature** :  $-55^\circ\text{C}$  to  $+155^\circ\text{C}$

**Max. Torque for Contacts** : 2 N.m

**Max. Torque for Mounting** : 1.8 N.m

**Power Rating** : 50W at  $50^\circ\text{C}$  Tap Temperature

**Dielectric Strength** : Up to 15kV

**Termination to Contacts** : M5 Screws

**Required thermal transfer compound of-heat conductivity** : 1 W/ $^\circ\text{C}$

**Required flatness of heat sink** :  $\leq 0.05\text{mm}$

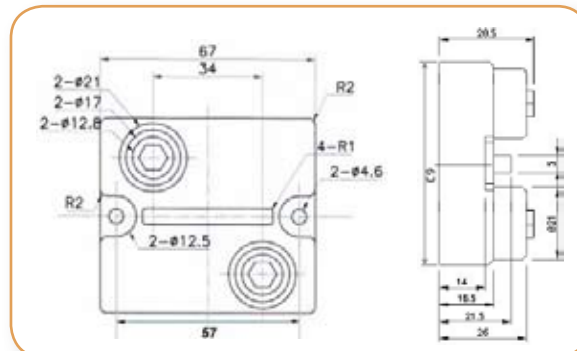
**Roughness of the Heatsink surface** :  $\leq 6.4\mu\text{m}$ .

**Isolation Voltage(Terminal to Heatsink)** : 12kVac

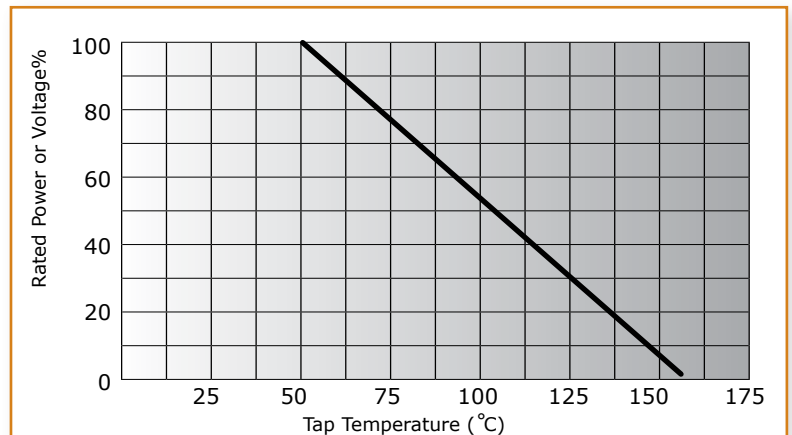
Resistive Materials : Thicker Film

Bottom Tap Materials : AlN

## DIEMENSION



## DERATING CURVE



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

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