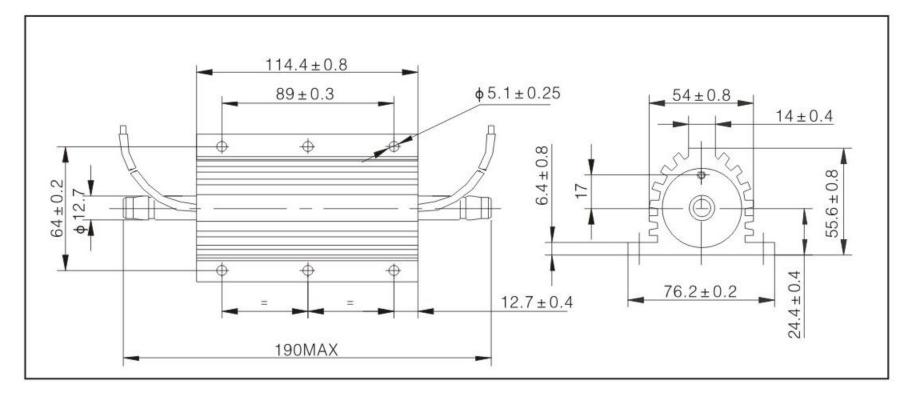


### Construction(mm)



2) Standard water pipe 12.7 OD . For alternative pipe material and

must be have a good flatness In order to improve thermal conductivity,

surfaces in contact (aluminum housing, heatsink) should be laid on with a

3) Surfaces in contact must be carefully cleaned. The heatsink surface

- Features
- BALANCED COOLING
- LOW INDUCTION WINDINGS
- MOULDED-IN INSULATED CABLE TERMINATIONS
- HIGH POWER FOR SMALL SIZE

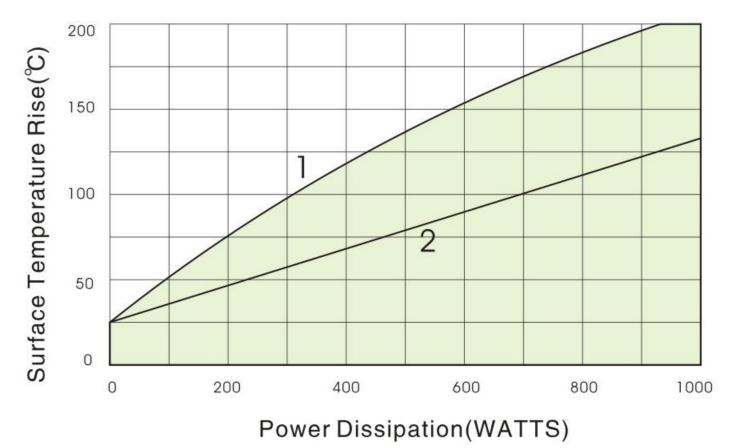
Having been originally designed for use in thyristor protection circuits, the REW600 is most suitable where water cooling is available and space limited. The withdrawal of heat, internally and externally, ensures a low temperature gradient across the unit reducing internal stress. Heat is extracted internally through the cooling pipe and externally by direct mounting onto chassis or additional water cooled heatsink, thereby reducing temperature gradient across internal insulation.

Temperature rise & power dissipation

1) \*Surface temperature measuring point

silicone grease.

connection arrangements, please consult the factory.



## Applications

- REW resistors for pulse applications
- Maximum overload
- Inductance values
- Low ohmic values
- Special terminations
- Alternative aluminum housing designs and mountings

# Reference Standards

Q/WCD11-2010

Curve 1 Resistor mounted on standard air cooled heatsink with water at 25℃ flowing at rate of 2 liters/minute.

Curve 2 Resistor mounted on water cooled heatsink if Rth 0.04℃/w with water at 25℃ flowing at rate of 4 liters/minute.

POWER RATING 600Watts mounted on 3750mm<sup>2</sup> × 3mm Aluminum plate with 25°C water flowing at rate of 2 litres per minute. See Curve 1.

900Watts mounted on water cooled heatsink of thermal resistance 0.04℃/W with water at 25℃ flowing at rate of 4 litres/minute. See Curve 2.





## Electrical specifications

Power Rating On Standard Heat Sink @25℃	Resistance Range Ohms	Limiting Element Voltage DC/AC RMS	Voltage Proof AC Peak	△R%Stability △R% PER 1000HRS	Typical Surface Temperature Rise °C/W Standard Heat Sink Mounted	Standard Heat Sink (Aluminum) RTH
600W	R1~50K	2200V	3000V	3%	0.19℃/W	0.04°C/W

### Performance

Test Item				
Tolerance	Standard J( ± 5%),please consult Vitrohm for closer tolerances			
Temperature Coefficients typical values	Below 1R 100(10 <sup>-6</sup> /K),For lower TC's please consult the factory			
Insulation resistance(Dry)	≥10000M Ω			
Power dissipation high ambient temperature	Dissipation derates linearly to zero at 200℃.			
Low inductive(NREW600)	Specify by adding N before the REW code e.g. NREW. Max value for NREW600 is 12K5 ohms.			
Insulation resistance(Dry)	≥10000M Ω			
Construction	Water pipe & wound former is encapsulated in an aluminum housing ensuring good humidity seal and a high level of voltage protection.			
Water pipe	Copper-other materials available on request.			
Core	High Alumina Ceramic with high thermal conductivity and capable of withstanding severe thermal shock.  It's ground finish ensures maximum contact with the resistive element for rapid heat transfer.			
Element	Copper nickel alloy or nickel chrome alloy depending on ohmic value.			
End caps	Stainless steel.			
Encapsulant	High temperature moulding compound			
Housing	Anodised aluminum			
Terminals	Insulated flexible cable. Maximum length 610mm each end.			

## How To Order

#### Example

