

# FHR FNR 2-T238 4-T238



- Extremely Low Ohm Rating
- High Stability
- Two- and Four Circuit Technology
- Low Temperatur Coefficient
- Low Electrical Noise
- Low Inductance

## SPECIFICATIONS

### ELECTRICAL

	<b>FHR 2/4-T238 FHN 2-T238</b>	<b>FNR 2/4-T238 FNN 2-T238</b>
<b>Resistance Range</b>	: R01/R001...100R	R01/R001...100R
<b>Power Rating</b>	: 60 W* * with heatsink	80 W*
<b>Thermal Resistance Rthj-c</b>	: 1.3 K/W	1.0 K/W
<b>Tolerances</b>	: 0.5%, 1%, 2%, 5% (other Tolerances upon request)	
<b>Stability</b>	: 0.5	
<b>Temperatur Coefficient</b>	: $\pm 15$ ppm/K (20...60)°C / $\pm 50$ ppm/K (-40...130)°C R < R02: $\pm 20$ ppm/K (20...60)°C FHR/FNR2-T238 as well as FHN/FNN TCR-Shift depending on the resistor value	
<b>Voltage Proof</b>	: 2.5 kVDC	
<b>Thermal EMF</b>	: < 1 $\mu$ V/K	
<b>Max. Current</b>	: 40 A (higher Values upon request)	45 A

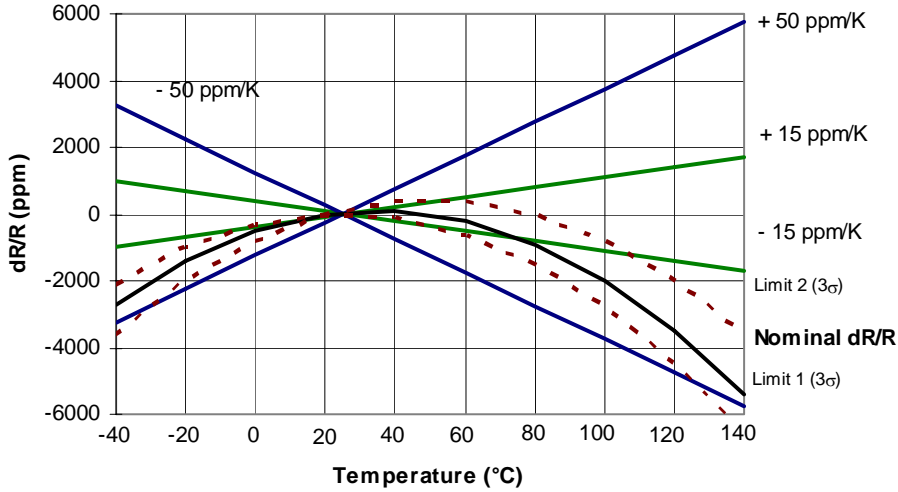
### ENVIRONMENTAL

**Operative Temperature Range** : -40°C...130°C

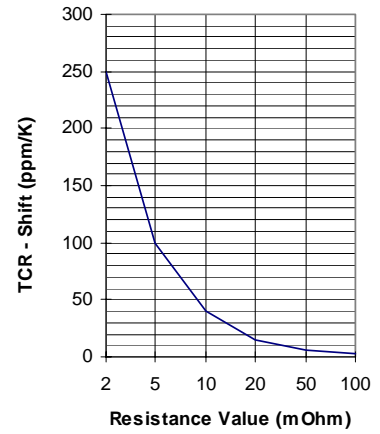
### MECHANICAL

<b>Resistor Material</b>	: Metalfoil CuNiMn ( DIN 17471)
<b>Substrate</b>	: Al <sub>2</sub> O <sub>3</sub> AIN
<b>Housing</b>	: Epoxy
<b>Connector Material</b>	: Cu or brass, tinned 2-pin, 4-pin

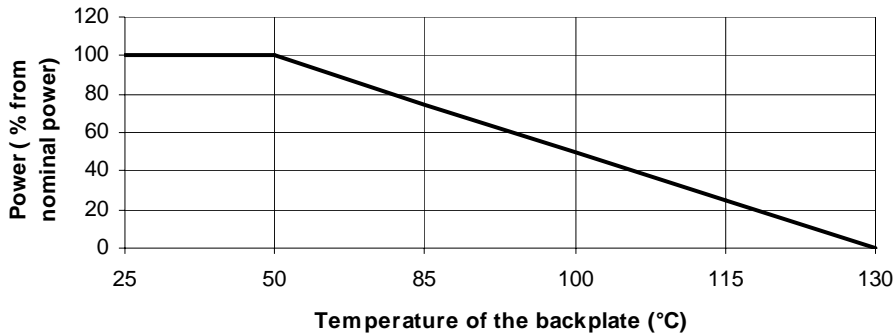
TEMPERATURE COEFFICIENT



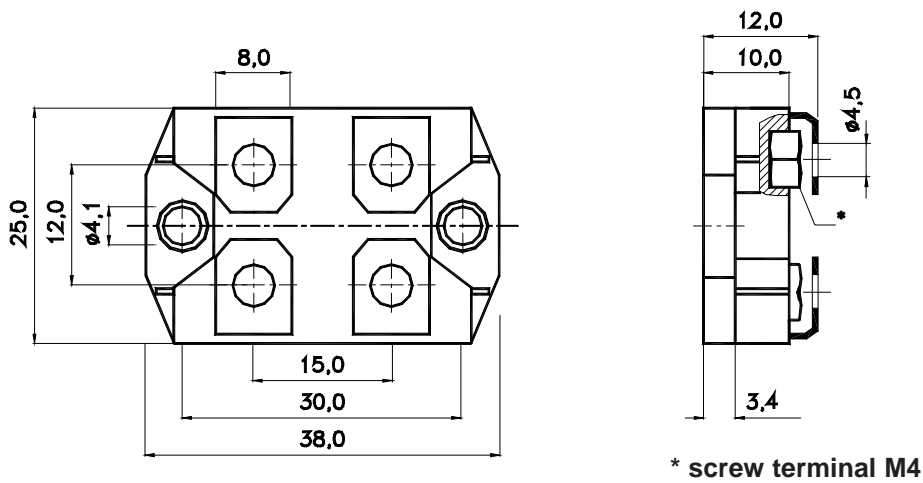
(FHR/FNR and FHN/FNN 2-T238)



DERATING CURVE



DIMENSIONS

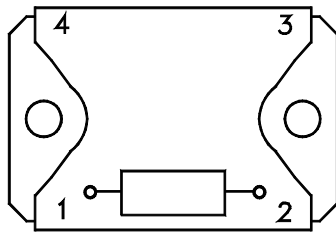


Standard: Pin G (width= 6.35) leads curved

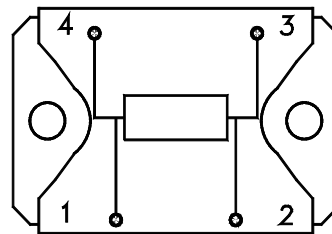
Dimensions in mm

\* screw terminal M4

**FAULTY CONNECTION VARIATIONS**



**FHR/FNR 2-T238**



**FHR/FNR 4-T238**  
1 - U1 / 2 - U2 / 3 - I2 / 4 - I1

Dimensions in mm

**HOW TO ORDER**

**FHR 2-T238 1R1 G 1%**

**FNR 4-T238 R001 F 2%**