

**FHR 2-3025 2-3818 4-4618  
4-3825 4-3825H**



- **High Power**
- **Extremely Low-Ohm**
- **High Stability**
- **Kelvin Connection**
- **Low Temperature Coefficient**
- **Low Inductance**

**SPECIFICATIONS**

**ELECTRICAL**

	<b>FHR 2-3025/2-3818</b>	<b>FHR 4-3825H 4-3825/4-4618</b>
<b>Resistance Range</b>	: R010...100R	R001...100R
<b>Power Rating</b>	: 3 W (70°C) without heatsink (5 W for FHR4-3825H) 40 W with heatsink	50 W
<b>Thermal Resistance Rthj-c</b>	: 2.0 K/W	1.6 K/W
<b>Tolerances</b>	:	:
<b>from R001</b>	:	1.0%, 2%, 5%
<b>from R005</b>	:	0.5%, 1%, 2%, 5%
<b>from R010</b>	: 0.5%, 1%, 2%, 5%	0.1%, 0.25%, 0.5%, 1%, 2%, 5%
<b>from R020</b>	: 0.25%, 0.5%, 1%, 2%, 5%	0.1%, 0.25%, 0.5%, 1%, 2%, 5%
<b>Stability</b>	: 0.1%, 0.2%, 0.5% (depends on stress)	
<b>Temperature Coefficient</b>	: ±15 ppm/K (20 ... 60)°C ±25 ppm/K (20 ... 60)°C with contact F FHR 2-3025/3818 TCR Shift (see table next page)	
<b>Voltage Proof</b>	: 500 VDC	
<b>Thermal EMF</b>	: 1 µV/K	
<b>Max. Current</b>	: 150 A / 200 A (contact F)	

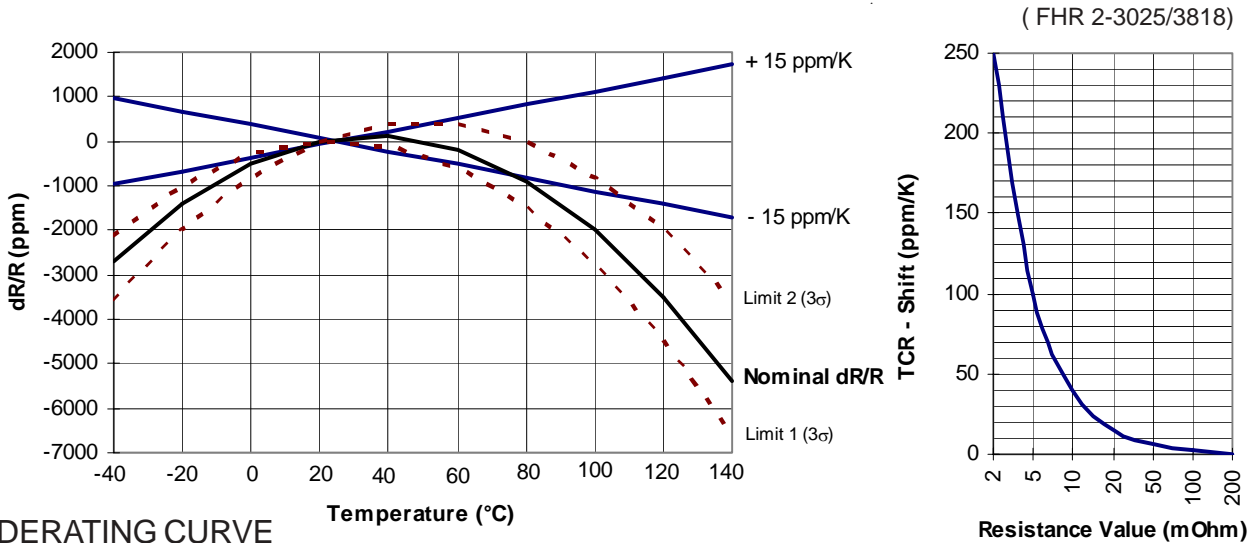
**ENVIRONMENTAL**

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

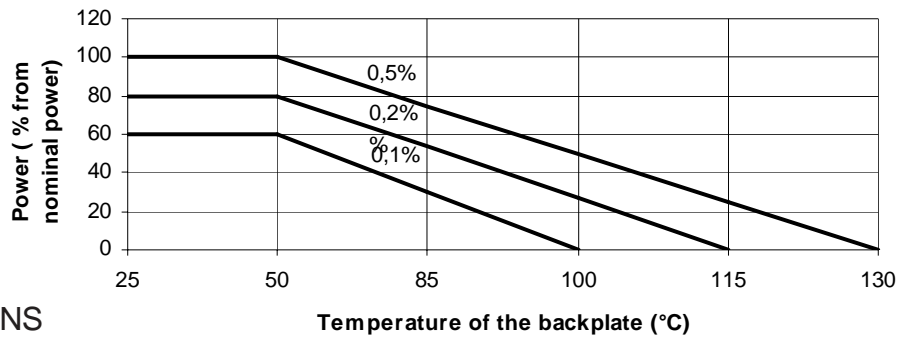
**MECHANICAL**

<b>Resistor Material</b>	: Metalfoil CuNiMn (nach DIN 17471)
<b>Substrate</b>	: anodized aluminium
<b>Housing</b>	: Epoxy
<b>Connector Material</b>	: Cu tinned, 2- and 4-pin
<b>Max. torque backplate</b>	: 1Nm

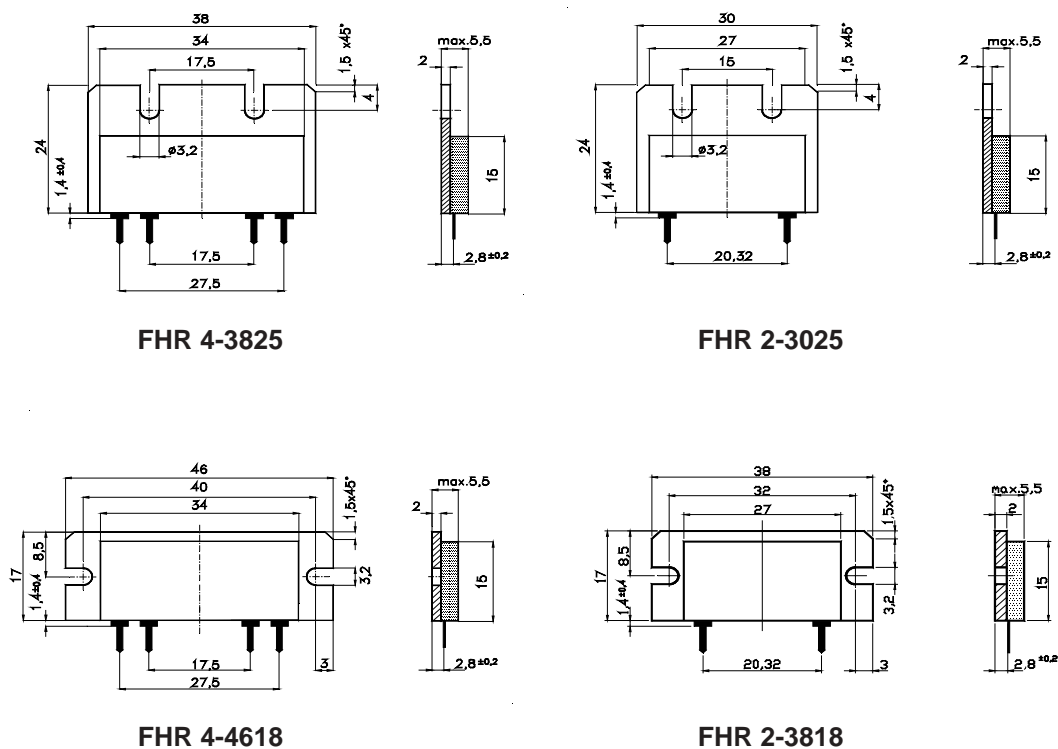
TEMPERATURE COEFFICIENT

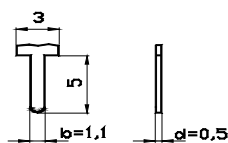


DERATING CURVE

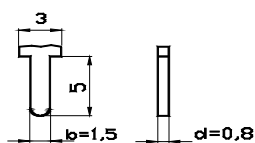


DIMENSIONS

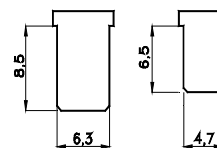




lead K  
>10mOhm / 50A

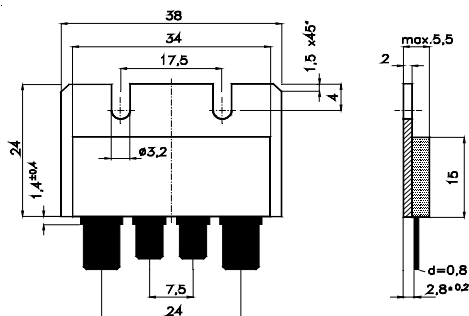


lead A  
<10mOhm / 150A

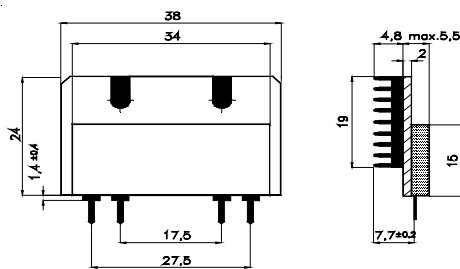


lead F  
200A

SPECIAL HOUSINGS



FHR 4-3825 F



FHR 4-3825H

Dimensions in mm

HOW TO ORDER

FHR 4-3825 10R0 K 0.25%  
FHR 4-3825H R010 A 0.5%

FHR 4-3825 R001 F 1%  
FHR 4-4618 R050 A 1%