

FEATURES

- Resistances from 0.0010hm to 1000hms
- Power Rating to 50Watt
- Resistance Tolerances to ±0.1%
- TCR to ±10ppm/K
- Very Low Inductance
- Load Stability to 0.1%





TABLE 1-SPE	CIFICATIONS		
ТҮРЕ		FHR 4-3825 FHR 4-3825H FHR 4-4618	
Resistance Range		0.001 to 100 Ohms	
Power Rating	Free air 70°C	3W / 5W for 3825H	
	With heatsink	50W	
Tolerances from 0R001		0.1% / 0.25% / 0.5% / 1% / 2% / 5%	
Thermal Resistance		1.6 K/W	
Stability (1000h)		0.1% / 0.2% / 0.5% (depends on stress)	
Temperature Coefficient Standard (Q) Option (R) Extended Temperature Range		±25ppm/K (20 to 60°C) ±50ppm/K (-40 to 130°C) other specifications upon request	
Voltage Proof		500 VDC	
Maximum Current		150 A / 200 A for contact F	
Thermal EMF		< 1µV/K	
Operating Temperature Range		-40 to 130 °C	
Resistor Material		CuNiMn-Foil	
Substrate		Anodized aluminium	
Housing		Ероху	
Connector Material		Cu / tinned	
Terminals		4	
Max. Torque		1 Nm	

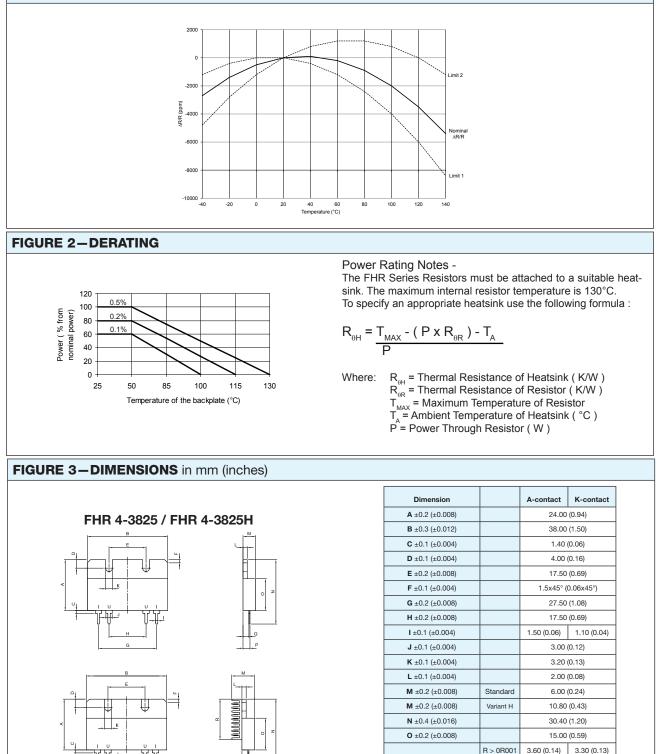
ORDERING INFORMATION

Part Number - Resistance - Contact - Tolerance - TCR

FHR 4-4618 0R050 F 1% Q FHR 4-3825H 1R140 A 0.1% N



FIGURE 1-TEMPERATURE COEFFICIENT



-hri-

P ±0.3 (±0.012)

Q ±0.3 (±0.012)

R ±0.2 (±0.008)

R ≤ 0R001

R > 0R001

 $R \leq 0R001$

4.10 (0.16)

2.80 (0.11)

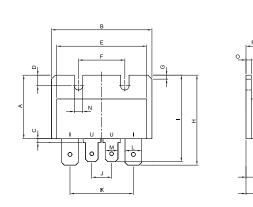
3.30 (0.13)

19.00 (0.75)



FIGURE 3-DIMENSIONS in mm (inches)

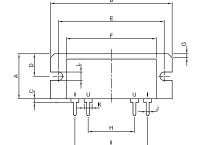
FHR 4-3825 F-contact



Dimension		
A ±0.2 (±0.008)	24.00 (0.94)	
B ±0.3 (±0.012)	38.00 (1.50)	
C ±0.2 (±0.008)	1.50 (0.06)	
D ±0.1 (±0.004)	4.00 (0.16)	
E ±0.3 (±0.012)	34.00 (1.34)	
F ±0.2 (±0.008)	17.50 (0.69)	
G ±0.1 (±0.004)	1.5x45° (0.06x45°)	
H ±0.2 (±0.008)	34.00 (1.34)	
l ±0.2 (±0.008)	32.70 (1.29)	
J ±0.2 (±0.008)	7.50 (0.30)	
K ±0.2 (±0.008)	24.00 (0.94)	
L ±0.2 (±0.008)	6.30 (0.25)	
M ±0.1 (±0.004)	4.80 (0.19)	
N ±0.1 (±0.004)	3.20 (0.13)	
O ±0.1 (±0.004)	2.00 (0.08)	
P ±0.2 (±0.008)	6.00 (0.24)	
Q ±0.2 (±0.008)	15.00 (0.59)	
R ±0.7 (±0.028)	4.10 (0.16)	
S ±0.7 (±0.028)	3.30 (0.13)	

Dimension	A-contact	K-contact
A ±0.1 (±0.004)	17.00 (0.67)	
B ±0.3 (±0.012)	46.00 (1.81)	
C ±0.4 (±0.016)	1.40 (0.06)	
D ±0.2 (±0.008)	8.50 (0.33)	
E ±0.3 (±0.012)	40.00 (1.57)	
F ±0.3 (±0.012)	34.00 (1.34)	
G ±0.1 (±0.004)	1.5x45° (0.06x45°)	
H ±0.2 (±0.008)	17.50 (0.69)	
l ±0.2 (±0.008)	27.50 (1.08)	
J ±0.1 (±0.004)	1.50 (0.06)	1.10 (0.04)
K ±0.1 (±0.004)	3.00 (0.12)	
L ±0.1 (±0.004)	3.20 (0.13)	
M ±0.1 (±0.004)		(0.08)
N ±0.2 (±0.008)	max.5.5 (0.22)	
O ±0.4 (±0.016)	23.40 (0.92)	
P ±0.2 (±0.008)	15.00 (0.59)	
Q ±0.3 (±0.012)	3.60 (0.14)	3.30 (0.13)
R ±0.3 (±0.012)	2.80 (0.11)	

FHR 4-4618





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 SHR 4-3825 0R100 A 1% M
 FHR 4-3825 0R001 A 1% Q
 FHR 4-3825 0R001 A 1% Q
 FPR 2-T218 4R000 C 1% FPR 4-T227 0R001 G 1% Q

 KHR 2-T227 10R00 G 1%
 FPS 4-T220 0R010 S 1% Q
 SPR 4-T220 0R100 S 1% M
 FHR 4-3825 0R010 A 1% Q
 FHR 4-2321 0R001 S 1% Q

 KHR 2-T227 10R00 G 1%
 FPS 4-T220 0R010 S 1% Q
 SPR 4-T220 0R100 S 1% M
 FHR 4-3825 0R010 A 1% Q
 FHR 4-2321 0R010 S 1% Q

 KHR 2-T227 10R00 G 1%
 FPS 4-T220 0R010 S 1% Q
 SPR 4-T220 0R100 S 1% M
 FHR 4-3825 0R010 A 1% Q
 FHR 4-2321 0R010 S 1% Q

 NPS 2-T126B 50R00 S 1%
 FPS 4-T220 0R010 S 1% Q
 SPR 4-T220 0R100 S 1% M
 FHR 4-3825 0R010 A 1% Q
 FHR 4-2321 0R010 S 1% Q