

FEATURES

- Resistor Values over four Decades
- Kelvin Connection
- Resistance Tolerances to $\pm 0.1\%$
- TCR to $\pm 25\text{ppm/K}$
- Load Stability to 0.1%



RoHS*
COMPLIANT

TABLE 1 – SPECIFICATIONS				
TYPE		FPN	FHN 5426 / 6819 FHN 6426 / 7819	FHN 8526
Resistance Range		0.010 to 90 Ohms		
Power Rating	Free air 70°C	2 W	2 W	3 W
	With heatsink		20 W	30 W
Tolerances		0.1% / 0.25% / 0.5% / 1%		
Stability (1000h)		0.1% / 0.2% / 0.5% (depends on stress)		
Temperature Coefficient Standard (Q)		$\pm 25\text{ppm/K}$ (20 to 60°C) other specifications upon request		
Insulation Resistance		> 10 GOhm		
Voltage Proof		> 1 kVDC		
Maximum Current		25 A		
Thermal EMF		< 1 $\mu\text{V/K}$		
Operating Temperature Range		-40 to 130°C		
Resistor Material		CuNiMn-Foil		
Substrate		Anodized aluminium		
Housing		Epoxy / anodized aluminium		
Connector Material		Cu / tinned		
Contact		K - Standard		
Max. Torque			1 Nm	

ORDERING INFORMATION
Part Number - Type - Resistance - Contact - Tolerance - TCR
FHN 4-6426 C 0R100-0R900-9R00-90R000 K 0.5% Q

FIGURE 1 – TEMPERATURE COEFFICIENT

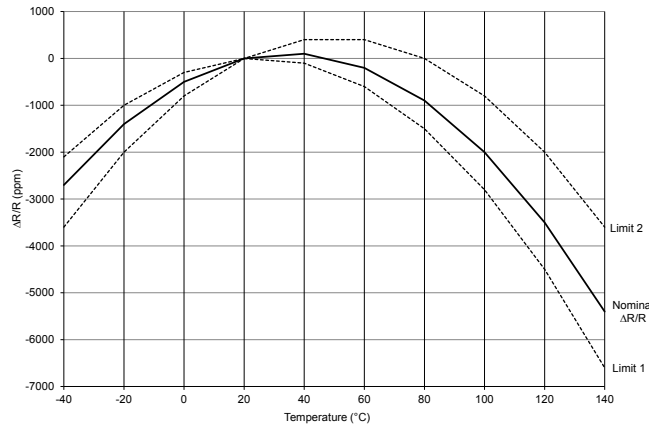


FIGURE 2 – DERATING

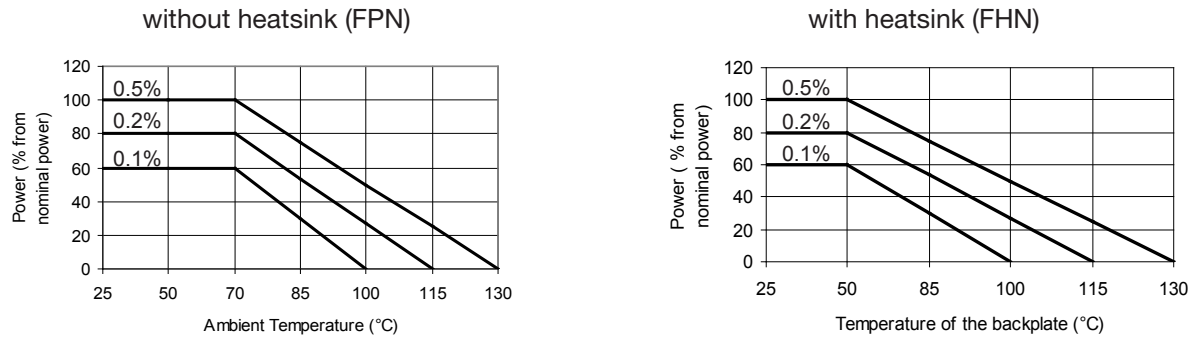


FIGURE 3 – RESISTANCE COMBINATIONS

Part	Type	Resistance Value Combination
FPN 3-4916 / FHN 3-5426 / FHN 3-6819	A	0.01 - 0.09 - 0.90 Ohms
	B	0.01 - 0.10 - 0.90 Ohms
	C	0.09 - 0.90 - 90.0 Ohms
	D	0.10 - 0.90 - 9.0 Ohms
	E	0.90 - 9.0 - 90.0 Ohms
	F	1.0 - 9.0 - 90.0 Ohms
	G	0.10 - 0.90 - 9.0 Ohms
FPN 4-5716 / FHN 4-6426 / FHN 4-7819	B	0.01 - 0.09 - 0.90 - 9.0 Ohms
	C	0.10 - 0.90 - 9.0 - 90.0 Ohms
	D	0.05 - 0.45 - 4.5 - 45.0 Ohms
	E	0.025 - 0.075 - 0.150 - 0.250 Ohms
FHN 4-8526	B	0.01 - 0.09 - 0.90 - 9.0 Ohms
FPN 5-4818	A	0.01 - 0.09 - 0.90 - 9.0 - 90.0 Ohms
	R	0.033 - 0.067 - 0.90 - 9.0 - 90.0 Ohms
FHN 6-8526	K	0.025 - 0.075 - 0.15 - 0.75 - 1.5 - 7.5 Ohms
FPN 7-6516	A	0.025 - 0.075 - 0.15 - 0.25 - 0.50 - 1.5 - 2.5 Ohms

FIGURE 4 – PATTERN

Pattern

The resistor networks can be configured upon request of the customer. The only restriction is the grid of 5.08mm between two contacts.

The point of the contact can be in a grid dimension of 2.54mm.

lead spacing : 0,1 inch = 2,54 mm

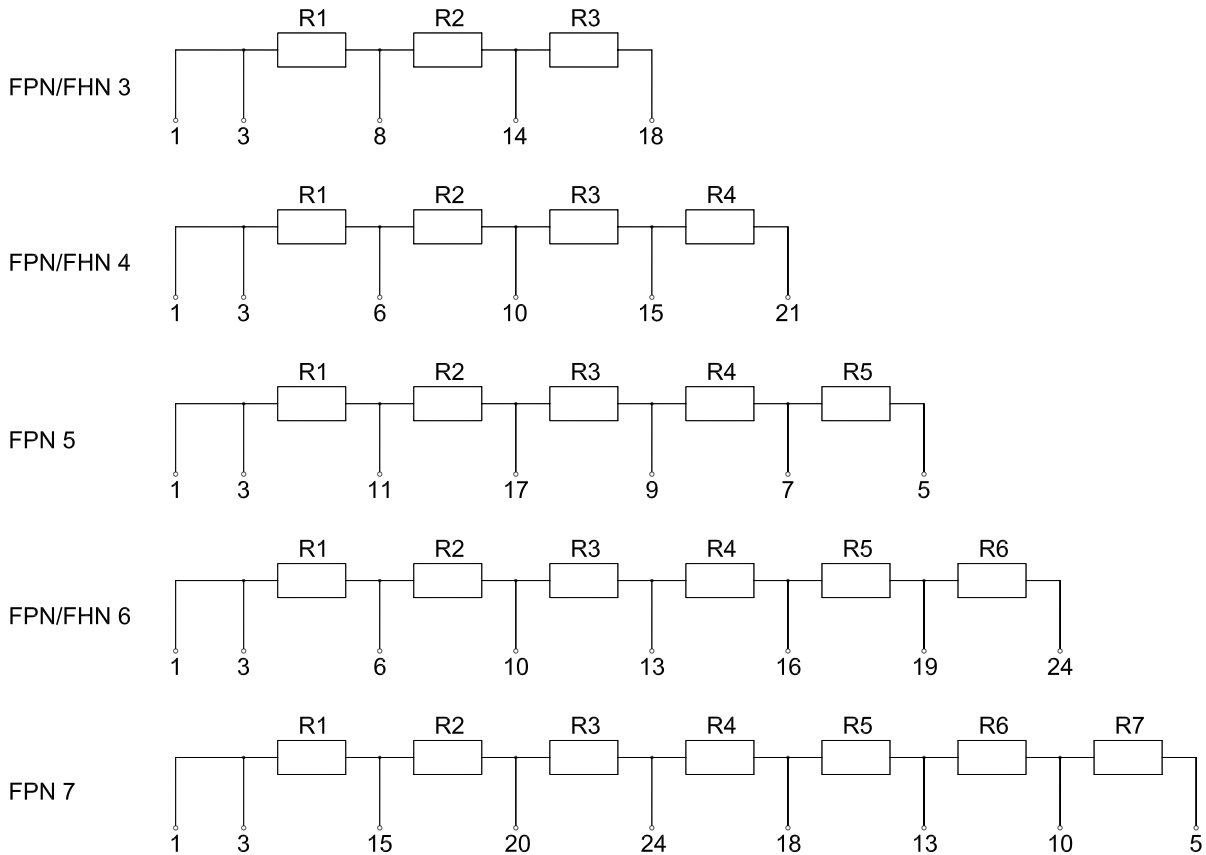
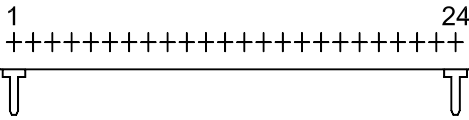
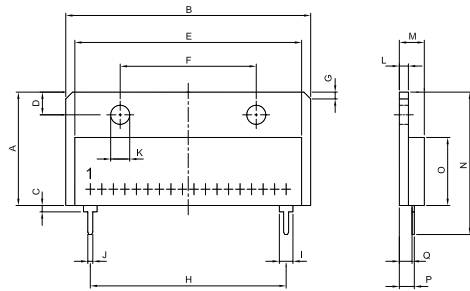
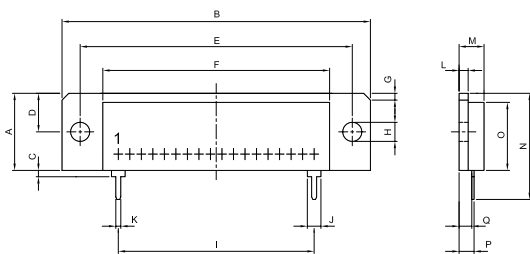


FIGURE 5 – DIMENSIONS in mm (inches)

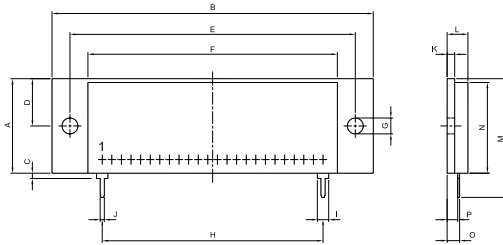


Dimension	FHN 3-5426	FHN 4-6426
A ±0.2 (±0.008)	25.00 (0.98)	
B ±0.2 (±0.008)	54.00 (2.13)	64.00 (2.52)
C ±0.4 (±0.016)	1.40 (0.06)	
D ±0.1 (±0.004)	5.00 (0.20)	
E ±0.3 (±0.012)	50.00 (1.97)	60.00 (2.36)
F ±0.2 (±0.008)	30.00 (1.18)	35.00 (1.38)
G ±0.1 (±0.004)	1.5x45° (0.6x45°)	
H ±0.3 (±0.012)	43.18 (1.70)	50.80 (2.00)
I ±0.1 (±0.004)	3.00 (0.12)	
J ±0.1 (±0.004)	1.10 (0.04)	
K ±0.1 (±0.004)	4.20 (0.17)	
L ±0.1 (±0.004)	2.00 (0.08)	
M ±0.2 (±0.008)	max.5.5 (0.22)	
N ±0.3 (±0.012)	31.40 (1.24)	
O ±0.2 (±0.008)	15.00 (0.59)	
P ±0.1 (±0.004)	3.30 (0.13)	
Q ±0.1 (±0.004)	2.80 (0.11)	

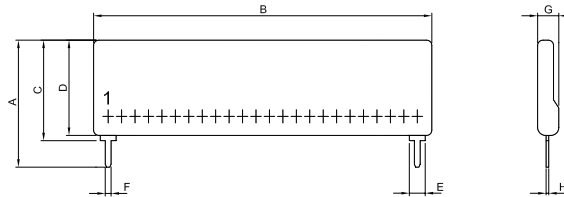


Dimension	FHN 3-6819	FHN 4-7819
A ±0.2 (±0.008)	17.00 (0.67)	
B ±0.3 (±0.012)	68.00 (2.68)	78.00 (3.07)
C ±0.4 (±0.016)	1.40 (0.06)	
D ±0.2 (±0.008)	8.50 (0.33)	
E ±0.3 (±0.012)	60.00 (2.36)	70.00 (2.76)
F ±0.2 (±0.008)	50.00 (1.97)	60.00 (2.36)
G ±0.1 (±0.004)	1.5x45° (0.6x45°)	
H ±0.1 (±0.004)	4.20 (0.17)	
I ±0.3 (±0.012)	43.18 (1.70)	50.80 (2.00)
J ±0.1 (±0.004)	3.00 (0.12)	
K ±0.1 (±0.004)	1.10 (0.04)	
L ±0.1 (±0.004)	2.00 (0.08)	
M ±0.2 (±0.008)	max. 5.5 (0.22)	
N ±0.2 (±0.008)	23.40 (0.92)	
O ±0.2 (±0.008)	15.00 (0.59)	
P ±0.1 (±0.004)	3.30 (0.13)	
Q ±0.1 (±0.004)	2.80 (0.11)	

FIGURE 5 – DIMENSIONS in mm (inches)



Dimension	FHN 4-8526	FHN 6-8526
A ±0.2 (±0.008)	25.00 (0.98)	
B ±0.3 (±0.012)	85.00 (3.35)	
C ±0.2 (±0.008)	1.00 (0.04)	
D ±0.2 (±0.008)	12.50 (0.49)	
E ±0.3 (±0.012)	75.50 (2.97)	
F ±0.3 (±0.012)	66.00 (2.60)	
G ±0.1 (±0.004)	4.20 (0.17)	
H ±0.3 (±0.012)	50.80 (2.00)	58.42 (2.30)
I ±0.1 (±0.004)	3.00 (0.12)	
J ±0.1 (±0.004)	1.10 (0.04)	
K ±0.1 (±0.004)	2.00 (0.08)	
L ±0.2 (±0.008)	max. 5.5 (0.22)	
M ±0.3 (±0.012)	31.00 (1.22)	
N ±0.2 (±0.008)	24.00 (0.94)	
O ±0.1 (±0.004)	3.30 (0.13)	
P ±0.1 (±0.004)	2.80 (0.11)	



Dimension	FPN 3-4916	FPN 4-5716	FPN 5-4818	FPN 7-6516
A ±0.2 (±0.008)	21.50 (0.85)		23.50 (0.93)	21.50 (0.85)
B ±0.3 (±0.012)	49.00 (1.93)	57.00 (2.24)	48.00 (1.89)	65.00 (2.56)
C ±0.2 (±0.008)	16.50 (0.65)		18.50 (0.73)	16.50 (0.65)
D ±0.2 (±0.008)	15.50 (0.61)		17.50 (0.69)	15.50 (0.61)
E ±0.1 (±0.004)	3.00 (0.12)			
F ±0.1 (±0.004)	1.10 (0.04)			
G ±0.2 (±0.008)	2.80 - 3.20 (0.11 - 0.13)			
H ±0.1 (±0.004)	0.50 (0.02)			



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