



Hermetic Flat-Pak Resistor Networks



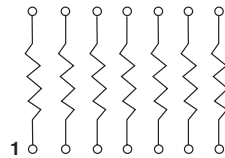
Product may not be to scale

FEATURES

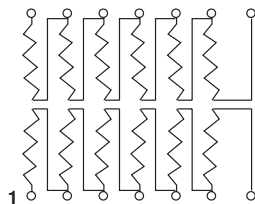
Vishay Thin Film offers a broad line of precision resistor networks in hermetic Flat-Packs for surface mount requirements in military, space or other harsh environmental applications. These networks provide the long-term stability necessary to insure continuous specification and performance over the 20 to 30 year life required for space applications. The fabrication of these devices is performed under tight procedural and environmental controls to insure conformance to all 883C Level H or K requirements. Custom configurations, values and tolerance combinations are available with fast turnaround.

PRODUCT CAPABILITIES	
Resistance Range	10Ω to 1MΩ Total
Absolute Resistance Tolerance	1% to 0.05%
Resistance Ratio Tolerance	0.1% to 0.01%
Absolute TCR	± 10, 25, 50ppm/°C
Ratio TCR	± 5ppm/°C standard
Absolute Resistor Stability	1000ppm/2000 hours @ 70°C
Ratio Resistor Stability	300ppm/2000 hours @ 70°C
Package Power Dissipation	800mW/70°C
Operating Temperature Range	- 55°C to + 125°C

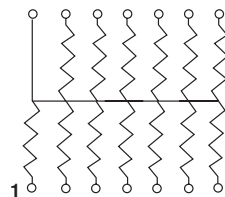
STANDARD CONFIGURATIONS



FP200	
Number of Resistors	7, 8
Number of Leads	14, 16
Type Connection	Isolated
Values Available	500Ω - 100KΩ



FP201	
Number of Resistors	12, 14
Number of Leads	14, 16
Type Connection	Series
Values Available	500Ω - 100KΩ



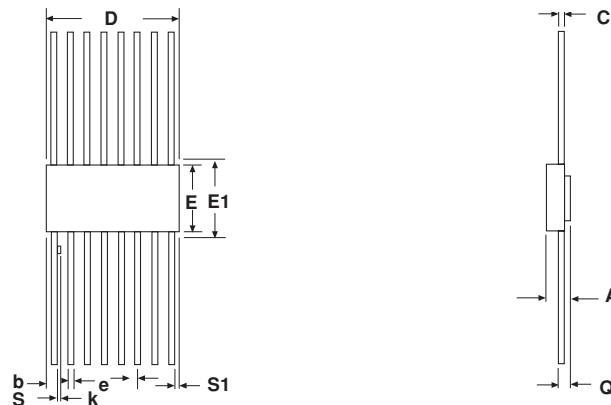
FP202	
Number of Resistors	13, 15
Number of Leads	14, 16
Type Connection	Common
Values Available	500Ω - 100KΩ

VISHAY THIN FILM • FRANCE +33.4.93.37.28.24 FAX: +33.4.93.37.27.31 • GERMANY +49.9287.710 FAX: +49 9287.70435 • ISRAEL +972.3.557.0945 FAX: +972.3.558.9121
 • ITALY + 39.2.300.11919 FAX: +39.2.300.11999 • JAPAN +81.42.729.0661 FAX: +81.42.729.3400 • SINGAPORE +65.788.6668 FAX: +65.788.0988
 • SWEDEN +46.8.594.70590 FAX: +46.8.594.70581 • UK +44 191 514 8237 FAX: +44 1953 457 722 • USA: (610) 407-4800 FAX: (610) 640-9081



PACKAGE OUTLINE DRAWING

FLAT-PAK FP200



DIMENSIONS in inches				
	14 Lead		16 Lead	
	minimum	maximum	minimum	maximum
A	0.086	0.106	0.045	0.115
b	0.015	0.019	0.015	0.019
C	0.004	0.007	0.003	0.009
D	0.373	0.383	--	0.440
e	0.047	0.053	0.050	BSC
E	0.250	0.260	0.245	0.285
E1	--	0.290	--	0.315
E2	0.158	0.172	0.130	--
E3	0.030	--	0.030	--
L	--	--	0.250	0.370
Q	0.026	--	0.026	0.045
S	--	0.045	--	0.045
S1	0.005	--	0.005	--
K	--	--	0.008	0.015

DIMENSIONS in millimeters				
	14 Lead		16 Lead	
	minimum	maximum	minimum	maximum
A	2.18	2.69	1.14	2.92
b	0.38	0.48	0.38	0.48
C	0.10	0.18	0.08	0.23
D	9.47	9.73	--	11.18
e	1.19	1.35	1.27	BSC
E	6.35	6.60	6.22	7.24
E1	--	7.37	--	8.00
E2	4.01	4.37	3.30	--
E3	0.76	--	0.76	--
L	--	--	6.35	9.40
Q	0.66	--	0.66	1.14
S	--	1.14	--	1.14
S1	0.13	--	0.13	--
K	--	--	0.20	0.38

ORDERING INFORMATION

Example: FP200-16-8-1002-B-F-B-C, 16 Lead, 10000Ω Isolated Resistors, Absolute Tolerance: 0.1%, Ratio Tolerance: 0.1%, Absolute TCR: 25ppm/°C, Ratio TCR: 2ppm/°C.

FP200 MODEL	16 NUMBER OF LEADS	8 NUMBER OF RESISTORS	1000 RESISTANCE VALUE	B ABSOLUTE TOLERANCE %	F RATIO TOLERANCE % (To R ₁)	B ABSOLUTE TCR. PPM/°C	C RATIO TCR PPM/°C
			The first 3 digits are significant figures and the last specifies the number of zeros to follow. "R" designates the decimal point. Example: 100 ohms = 1000 1000 ohms = 1001	A = 0.05 B = 0.1 C = 0.2 D = 0.5 F = 1.0 G = 2.0 J = 5.0 K = 10.0 M = 20.0	*B = 0.010 C = 0.025 D = 0.050 F = 0.100 H = 0.250 J = 0.500 K = 1.000 X = N/A	*A = 10 B = 25 D = 50 E = 100	*C = 2 *D = 3 F = 5 G = 10 X = N/A

*Value dependent

NOTE: Factory will covert order number into final part number.

VISHAY THIN FILM • FRANCE +33.4.93.37.28.24 FAX: +33.4.93.37.27.31 • GERMANY +49.9287.710 FAX: +49 9287.70435 • ISRAEL +972.3.557.0945 FAX: +972.3.558.9121
 • ITALY + 39.2.300.11919 FAX: +39.2.300.11999 • JAPAN +81.42.729.0661 FAX: +81.42.729.3400 • SINGAPORE +65.788.6668 FAX: +65.788.0988
 • SWEDEN +46.8.594.70590 FAX: +46.8.594.70581 • UK +44 191 514 8237 FAX: +44 1953 457 722 • USA: (610) 407-4800 FAX: (610) 640-9081