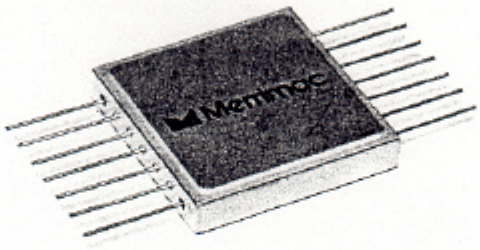
NEW DIRECTIONS

Merrimac PDF-4E Series 0°POWER DIVIDERS/ COMBINERS

50 kHz to 2 GHz / 4-Way / Uniform Phase & Ampli. Bal. / Low Insertion Loss / Hi-Rel Herm. Flatpack



PRINCIPAL SPECIFICATIONS

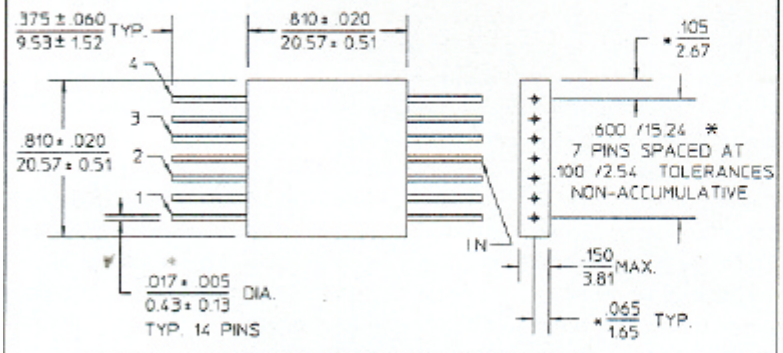
Model Number	Frequency Range, MHz	Isolation, dB, Min.	Isolation, dB, Typ.	Insertion Loss, dB, Max.	Insertion Loss, dB, Typ.	Amplitude Balance, dB, Max.	Amplitude Balance, dB, Typ.	Phase Balance Max.	Phase Balance Typ.	VSWR Input/Output Max.	VSWR Input/Output Typ.	Input Power Max.*
PDF-4E-20	0.05 - 40	30	35	1.0	0.6	0.2	0.1	2°	1°	1.3:1	1.2:1	50 mW
PDF-4E-50	2 - 100	30	33	1.0	0.6	0.2	0.1	2°	1°	1.3:1	1.2:1	1 W
PDF-4E-250	10 - 500	25	30	1.25	0.8	0.2	0.1	3°	2°	1.3:1	1.2:1	1 W
PDF-4E-1300	100 - 2000	20	23	3.0	2.5	0.6	0.4	6°	4°	1.8:1	1.5:1	1 W

*CW input power when used as divider with 1.2:1 $VSWR_{out}$

GENERAL SPECIFICATIONS

Coupling:	– 6 dB nom.
Impedance:	50 Ω nom.
Internal Power Dissipation:	50 mW max.
Weight, nominal:	0.32 oz. (9 g)
Operating Temperature:	– 55° to +85°C

Package Outline

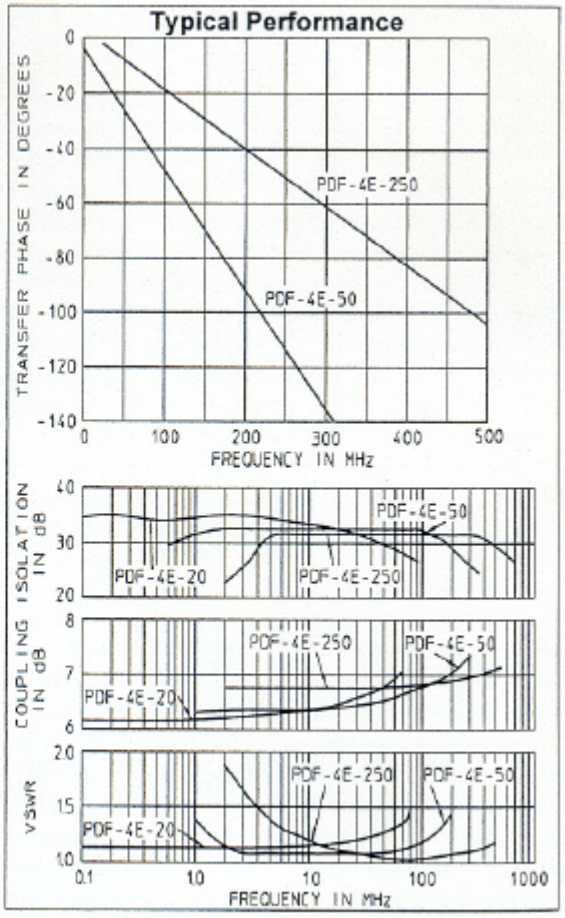


NOTES: 1. Tolerance on 3 place decimals ±.010(.25) except as noted.
2. Dimensions in inches over millimeters.
3. Dimensions marked with * apply only at body.

These units comply with MIL-P-23971 and can be screened for compliance with additional specifications for military and space applications requiring the highest reliability.

16Feb98

Typical Performance



MERRIMAC / 41 Fairfield Pl., West Caldwell, NJ 07006 / 201-575-1300 / Fax 201-575-0531 / http://www.merrimacind.com