

IN-PHASE 4-WAY AND 8-WAY DIVIDERS/COMBINERS, POWER SMA 0.5-18GHz

SERIES YE, YF MODEL D418M

GENERAL INFORMATION:

KDI/Triangle 4-way and 8-way Stripline in-phase power dividers have excellent phase and amplitude balance. The internal resistive element is a ceramic pad and can, therefore, handle relatively high values of CW and peak power. Stripline construction is utilized, thereby ensuring excellent electrical and environmental performance.

GENERAL SPECIFICATIONS:

Frequency Range:	0.5 to 18.0 GHz
RF Impedance:	50 Ohms
RF Power:	The power handling capability for load VSWR 's less than 1.50 is 1 watt CW and 1 kW peak for frequencies up to 2.0 GHz, and 400 mW CW and 0.4 kW peak for frequencies from 2.0 GHz to 18.0 GHz.
Operating Temperature:	-55°C to +85°C
Environment:	MIL-E-5400, MIL-STD-202
Connectors:	SMA female

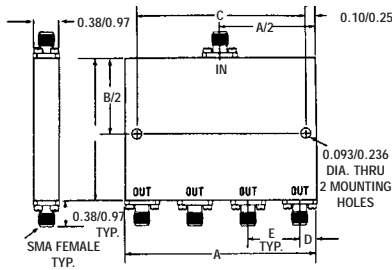
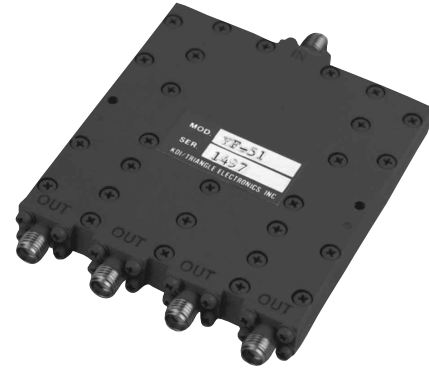


FIGURE 1
SERIES YF

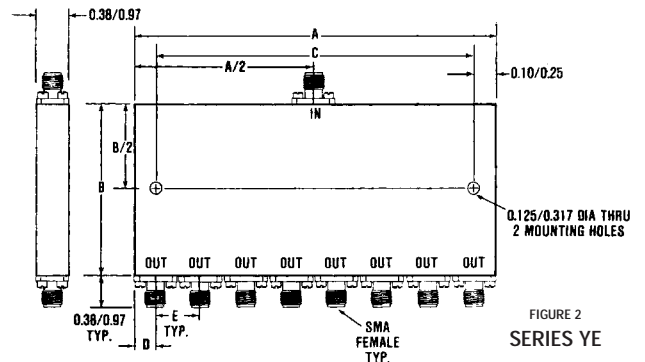


FIGURE 2
SERIES YE

ELECTRICAL PERFORMANCE

Model No.	Frequency Range GHz	Max. In/Out VSWR	Max. Insertion Loss dB	Min. Isolation dB	Phase Balance Degrees	Amplitude Balance dB	Out-line SMA	
OCTAVE BANDS								
4W	YF-25	0.75-1.5	1.25/1.20	0.4	21	3	0.3	7
	YF-30	1.5-3.0	1.30/1.20	0.5	20	3	0.3	8
	YF-38	2.0-4.0	1.30/1.20	0.6	20	3	0.3	4
8W	YF-45	4.0-8.0	1.40/1.30	0.8	18	5	0.5	4
	YE-09	0.5-1.0	1.35/1.30	0.7	20	3	0.35	1
	YE-11	1.0-2.0	1.40/1.35	0.8	18	4	0.35	2
	YE-21	2.0-4.0	1.45/1.40	1.1	17	4	0.35	3
	YE-41	4.0-8.0	1.60/1.55	1.4	16	7	0.6	3
MULTI-OCTAVE BANDS								
4W	YF-51	0.5-2.0	1.40/1.30	0.7	22	4	0.4	7
	YF-54	1.0-4.0	1.45/1.35	0.7	20	4	0.4	10
	YF-56	6.0-18.0	1.70/1.50	1.5	14	10	0.7	8
8W	YE-68	6.0-18.0	2.00/1.90	2.3	13	15	1.0	7
4W	D418M	1.0-1.5	1.80/1.35	0.7	10	1	0.2	11
		1.5-2.0	1.80/1.35	0.8	14	2	0.2	
		2.0-4.0	1.80/1.45	1.0	17	4	0.3	
		4.0-8.0	1.80/1.45	1.2	17	6	0.4	
		8.0-12.0	1.70/1.45	1.4	17	10	0.5	
		12.0-16.0	1.70/1.45	1.8	15	13	0.6	
		16.0-18.0	1.80/1.45	2.0	12	15	0.6	

MECHANICAL OUTLINES—FIGURE 1 SMA CONNECTOR SERIES YF (4-WAY)

OUTLINE	A Inches cm.	B Inches cm.	C Inches cm.	D Inches cm.	E Inches cm.
4	1.60	1.50	1.400	0.20	0.40
	4.06	3.81	3.556	0.51	1.02
7	2.60	2.75	2.400	0.25	0.70
	6.60	6.99	6.096	0.64	1.78
8	1.60	1.75	1.400	0.20	0.40
	4.06	4.45	3.556	0.51	1.02
10	1.60	2.00	1.400	0.20	0.40
	4.06	5.08	3.556	0.51	1.02
11	Drawing on Request				

Inches/Centimeters xx ±0.3 xxx±.010/ xx±.08 xxx±.025

MECHANICAL OUTLINES—FIGURE 2 SMA CONNECTOR SERIES YE (8-WAY)

OUTLINE	A Inches cm.	B Inches cm.	C Inches cm.	D Inches cm.	E Inches cm.
1	4.50	2.75	4.300	0.50	0.50
	11.43	6.99	10.922	1.27	1.27
2	4.0	2.25	3.800	0.25	0.50
	10.16	5.72	9.652	0.64	1.27
3	3.20	2.00	3.000	0.20	0.40
	8.13	5.08	7.620	0.51	1.02
7	3.20	2.85	3.000	0.20	0.40
	8.13	7.24	7.620	0.51	1.02

Inches/Centimeters xx ±0.3 xxx±.010/ xx±.08 xxx±.025

KEY: Inches[Millimeters] .XX ±.03 .XXX ±.010 [.X ±0.8 .XX ±0.25]