



MICROLAB/FXR

D2-D6 series

Power Splitters

2 - 6 way Reactive Power Dividers
Umbrella Style, 250 – 6000 MHz

- ◆ 2 to 6 way Power Division
- ◆ 200 Watt Average Power Rating
- ◆ Minimal RF Insertion Loss
- ◆ High Reliability
- ◆ N-female Connectors Standard
- ◆ BNC, TNC or SMA options



Microlab/FXR Model D2-D6 Power Splitters have been designed to evenly split high power signals with minimal reflections or loss. Units may also be used as low loss coherent combiners provided all inputs are both amplitude and phase coincident. Designed with only a few solder joints and an air dielectric, the loss has been minimized and reliability enhanced.

These dividers consist of radially symmetrical output branches emanating from a common junction. This junction is then transformed to the line by a series of cascaded quarter-wave transformers mounted within a coaxial housing.

See other data sheets for designs to meet specific system requirements for bandwidth, size, connectors, etc. (8/00)

General Specifications

Power Rating:	200 W avg., 3 kW peak
Insertion Loss	0.1 dB max.
Impedance:	50Ω nominal
Temperature:	-55°C to +150°C
Housing Finish:	Iridite to MIL-C-5541
Connector Finish:	Silverplate to QQ-S-365

Basic 2 Output Divider N male input, N female outputs (TN suffix), Diam. 2.5 in (63mm)

Frequency Range	Part No.	VSWR	Length in (mm)	Weight Oz (g)
250-750	D2-0TN	< 1.30	13.4 (340)	9 (252)
500-1500	D2-1TN	< 1.30	7.3 (185)	7 (196)
1000-3000	D2-2TN	< 1.30	4.3 (109)	5 (140)
2000-6000	D2-4TN	< 1.30	2.7 (69)	4 (112)

Basic 3 - 6 Output Dividers N male input, N female outputs (TN suffix), for all female use FN suffix.

Frequency Range	Length in (mm)	3 Outputs		4 Outputs		5 Outputs		6 Outputs	
		Part No	VSWR	Part No	VSWR	Part No	VSWR	Part No	VSWR
250-750	17.5 (445)	D3-0TN	< 1.30	D4-0TN	< 1.30	D5-0TN	< 1.30	D6-0TN	< 1.30
500-1500	9.4 (239)	D3-1TN	< 1.30	D4-1TN	< 1.30	D5-1TN	< 1.30	D6-1TN	< 1.30
1000-3000	5.3 (135)	D3-2TN	< 1.30	D4-2TN	< 1.30	D5-2TN	< 1.30	D6-2TN	< 1.30
2000-6000	3.2 (81)	D3-4TN	< 1.30	D4-4TN	< 1.30	D5-4TN	< 1.30	D6-4TN	< 1.35
Division Loss (nominal)		4.8 dB		6.0 dB		7.0 dB		7.8 dB	
Load Isolation (nominal)		9.6 dB		12.0 dB		14.0 dB		15.6 dB	
Output Diameter in (mm)		2.8 (71)		2.8 (71)		3.0 (76)		3.3 (84)	