

Coaxial

Power Splitter/Combiner

ZFSC-2-2500

2 Way-0° 50Ω 10 to 2500 MHz

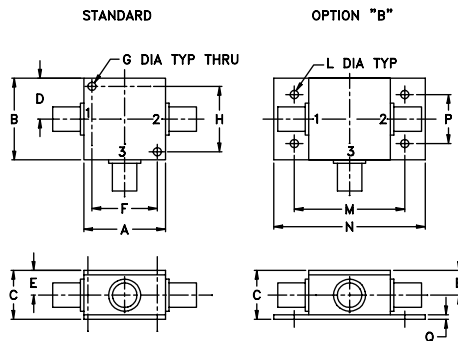
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.

Coaxial Connections

SUMPORT	3
PORT 1	1
PORT 2	2

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	wt
1.25	1.25	.75	.63	.38	1.00	.125	1.000	--	--	.125	1.688	2.18	.75	.07	grams
31.75	31.75	19.05	16.00	9.65	25.40	3.18	25.40	--	--	3.18	42.88	55.37	19.05	1.78	70.0

Features

- very wideband, 10 to 2500 MHz
- low insertion loss, 0.4 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 1.0 deg. typ.
- rugged shielded case

Applications

- cellular
- GPS
- PCS/DCS
- ISM
- satellite distribution



CASE STYLE: K18

Connectors	Model	Price	Qty.
SMA	ZFSC-2-2500-S	\$74.95	(1-9)
BRACKET (OPTION "B")		\$2.50	(1+)

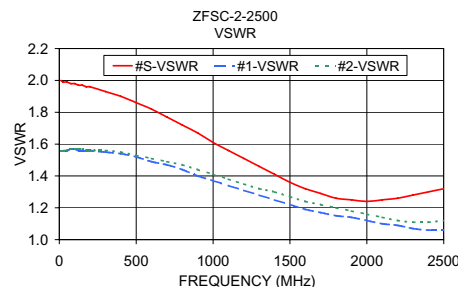
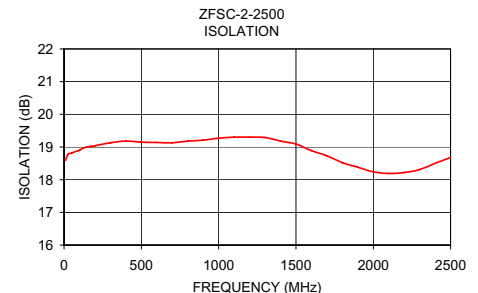
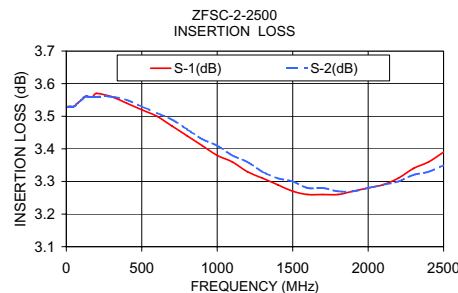
Splitter Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L		M		U	
f_L - f_U	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
10-2500	16	11	17	14	17	14	0.5	0.8	0.6	1.4	0.8	1.5	1	4	8	0.2	0.3	0.4

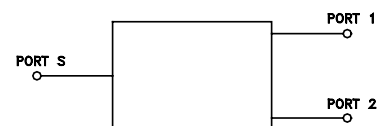
L = low range [f_L to $10 f_L$] M = mid range [$10 f_L$ to $f_U/2$] U = upper range [$f_U/2$ to f_U]

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
10	3.53	3.53	0.00	18.59	0.05	2.00	1.56	1.56
50	3.53	3.53	0.00	18.82	0.07	1.99	1.56	1.56
100	3.55	3.55	0.00	18.90	0.07	1.98	1.57	1.57
200	3.57	3.56	0.00	19.04	0.07	1.96	1.56	1.56
400	3.54	3.55	0.01	19.18	0.06	1.90	1.54	1.55
700	3.47	3.49	0.02	19.13	0.07	1.77	1.47	1.49
1000	3.38	3.41	0.02	19.27	0.15	1.61	1.37	1.41
1200	3.33	3.36	0.03	19.30	0.24	1.51	1.31	1.35
1400	3.29	3.31	0.03	19.18	0.34	1.41	1.25	1.30
1600	3.26	3.28	0.02	18.89	0.43	1.32	1.19	1.24
1800	3.26	3.27	0.01	18.52	0.55	1.26	1.15	1.20
2000	3.28	3.28	0.00	18.24	0.62	1.24	1.12	1.16
2200	3.31	3.30	0.02	18.22	0.69	1.26	1.09	1.12
2400	3.36	3.33	0.03	18.50	0.72	1.30	1.06	1.11
2500	3.39	3.35	0.04	18.68	0.72	1.32	1.06	1.12



electrical schematic



INTERNET <http://www.minicircuits.com>

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

Distribution Centers NORTH AMERICA 800-654-7949 • 417-335-5935 • Fax 417-335-5945 • EUROPE 44-1252-832600 • Fax 44-1252-837010

Mini-Circuits ISO 9001 & ISO 14001 Certified

REV. A
M94482
ZFSC-2-2500
HY/TD/CP/AM
060829