

Coaxial

Power Splitter/Combiner

2 Way-0° 50Ω 10 to 2500 MHz

Maximum Ratings

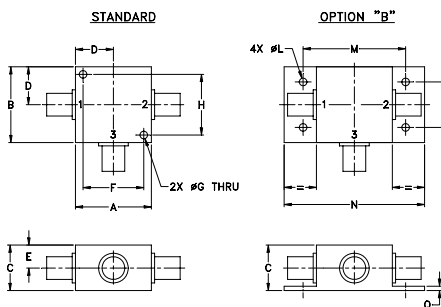
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.

Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections

SUM PORT	3
PORT 1	1
PORT 2	2

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
1.25	1.25	.75	.63	.38	1.00	.125	1.000
31.75	31.75	19.05	16.00	9.65	25.40	3.18	25.40

J	K	L	M	N	P	Q	wt
--	--	.125	1.688	2.18	.75	.07	grams
--	--	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

ZFSC-2-2500+



CASE STYLE: K18

Connectors Model
SMA ZFSC-2-2500-S+
BRACKET (OPTION "B")

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications

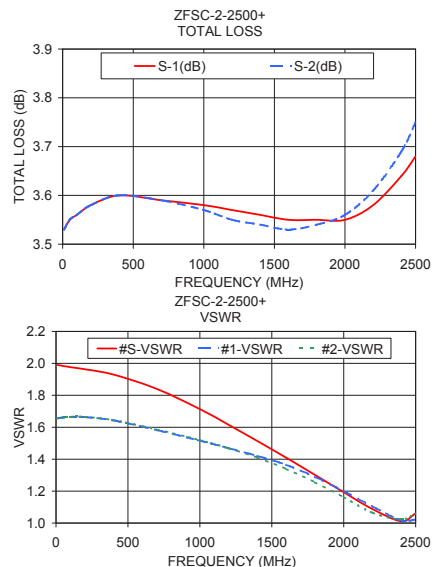
FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 3.0 dB			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)								
	L	M	U	L	M	U	L	M	U	L	M	U						
	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.						
f _L -f _U	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.						
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]

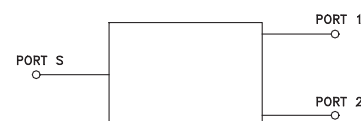
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
10.00	3.53	3.53	0.00	20.79	0.01	1.99	1.66	1.66
50.00	3.55	3.55	0.00	21.35	0.02	1.98	1.66	1.66
100.00	3.56	3.56	0.00	21.52	0.04	1.98	1.67	1.67
200.00	3.58	3.58	0.00	21.59	0.06	1.96	1.66	1.66
400.00	3.60	3.60	0.00	21.19	0.11	1.93	1.64	1.64
700.00	3.59	3.59	0.00	19.97	0.19	1.84	1.58	1.59
1000.00	3.58	3.57	0.01	19.28	0.30	1.71	1.52	1.52
1200.00	3.57	3.55	0.01	19.08	0.40	1.62	1.47	1.47
1400.00	3.56	3.54	0.01	19.22	0.54	1.51	1.42	1.41
1600.00	3.55	3.53	0.02	19.90	0.70	1.41	1.36	1.34
1800.00	3.55	3.54	0.01	21.53	0.87	1.30	1.29	1.26
2000.00	3.55	3.56	0.01	25.39	1.06	1.19	1.20	1.16
2200.00	3.58	3.61	0.03	39.20	1.20	1.09	1.10	1.07
2400.00	3.64	3.69	0.05	26.21	1.19	1.01	1.02	1.02

1. Total Loss = Insertion Loss + 3dB splitter loss.



electrical schematic



Notes

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
 B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
 C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp



www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

REV. E
 M151107
 ZFSC-2-2500+
 HY/TD/CP/AM
 151021