DC Pass

Power Splitter/Combiner

ZFSC-2-10G+

2 Way-0° 50Ω 2000 to 10000 MHz

CASE STYLE: JJJ142

Connectors	Model
SMA	ZFSC-2-10G+
BRACKET (OPTION "B")	

+RoHS Compliant

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

Maximum Ratings

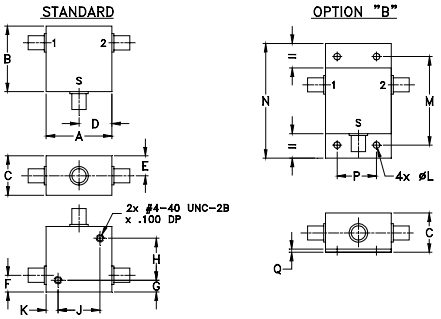
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.
DC Current	800 mA (400mA for each port)

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

Coaxial Connections

SUM SPORT	S
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	.32	.23	.800
31.75	31.75	19.05	16.00	9.65	8.13	5.84	20.32

J	K	L	M	N	P	Q	wt
.800	.23	.125	1.688	2.19	.750	.06	grams
20.32	5.84	3.18	42.88	55.63	19.05	1.52	70.0

Features

- very wideband, 2000 to 10000 MHz
- low insertion loss, 0.5 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- rugged shielded case

Applications

- instrumenation
- satellite communications
- defense communiations

Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)				INSERTION LOSS (dB) ABOVE 3.0 dB				PHASE UNBALANCE (Degrees)		AMPLITUDE UNBALANCE (dB)	
	L		U		L		U		L	U	L	U
f_L-f_U	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.
2000-10000	15	9	20	12	0.5	1.5	0.6	1.6	7	12	0.6	0.5

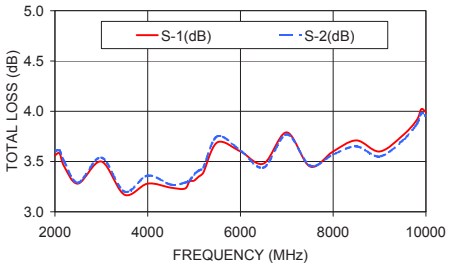
L = f_L to 6 GHz U = 6 GHz to f_U

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						
2000	3.56	3.60	0.04	11.59	0.17	1.75	1.41	1.39
2100	3.58	3.61	0.02	12.13	0.26	1.74	1.38	1.37
2500	3.28	3.29	0.02	14.31	0.59	1.67	1.32	1.30
3000	3.50	3.54	0.04	17.98	0.45	1.52	1.28	1.28
4000	3.28	3.36	0.08	26.34	0.77	1.13	1.24	1.27
4800	3.23	3.29	0.06	24.52	0.92	1.04	1.16	1.19
5000	3.31	3.37	0.05	23.24	0.78	1.06	1.13	1.16
5500	3.69	3.75	0.06	19.67	1.04	1.17	1.07	1.08
6000	3.60	3.61	0.01	18.65	0.66	1.31	1.11	1.12
7000	3.79	3.77	0.03	20.54	1.11	1.35	1.18	1.17
8000	3.60	3.57	0.03	19.11	0.90	1.30	1.31	1.28
9000	3.60	3.55	0.05	18.60	1.30	1.49	1.46	1.42
9800	3.91	3.87	0.04	14.90	1.69	1.87	1.45	1.40
9900	4.02	3.98	0.04	14.21	1.30	1.93	1.44	1.39
10000	3.99	3.95	0.04	13.68	1.70	2.00	1.43	1.38

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

ZFSC-2-10G+
TOTAL LOSS



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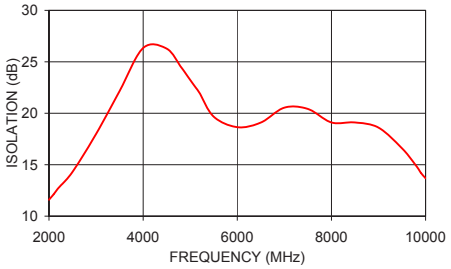
ISOLATION



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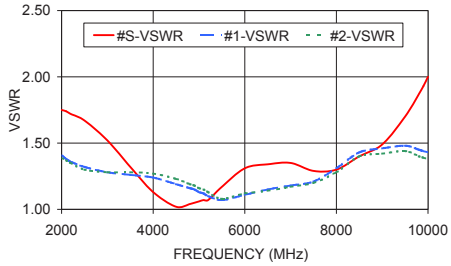
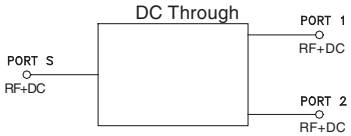
VSWR



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.
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