

Power Splitter/Combiner

2 Way-0° 50Ω 3500 to 9000 MHz

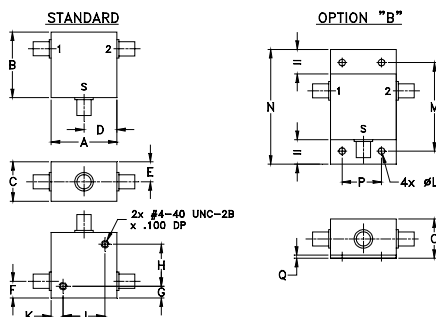
Maximum Ratings

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.
DC Current	800 mA (400mA for each port)
Permanent damage may occur if any of these limits are exceeded.	

Coaxial Connections

SUM PORT	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, 3500 to 9000 MHz
- low insertion loss, 0.5 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- rugged shielded case

Applications

- instrumentation
- satellite communications
- defense communications



Generic photo used for illustration purposes only

CASE STYLE: JJJ142

Connectors Model

SMA ZFSC-2-9G+

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		U		L		U		L	U	L	U
	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.
3500-9000	18	12	20	12	0.5	1.5	0.6	1.2	7	10	0.3	0.5

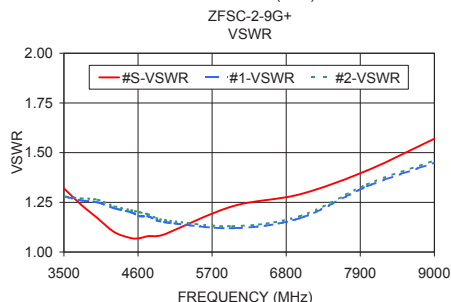
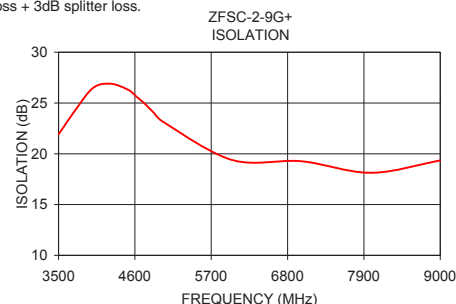
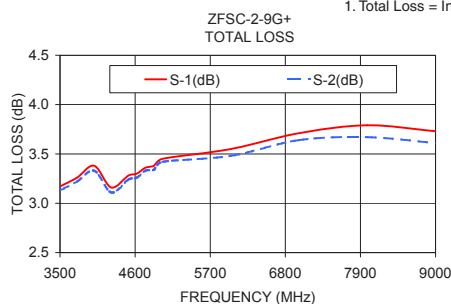
L = f_L to 6 GHz

U = 6 GHz to f_U

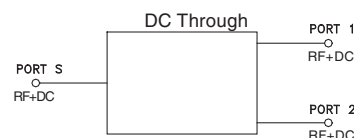
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
3500	3.17	3.13	0.06	21.90	1.29	1.32	1.28	1.28
3750	3.26	3.22	0.06	24.38	1.26	1.24	1.26	1.27
4000	3.38	3.33	0.07	26.50	1.27	1.17	1.25	1.26
4250	3.16	3.11	0.07	26.90	1.52	1.10	1.22	1.23
4500	3.28	3.24	0.05	26.31	1.57	1.07	1.20	1.21
4625	3.30	3.26	0.07	25.61	1.58	1.07	1.18	1.20
4750	3.36	3.33	0.07	24.88	1.64	1.08	1.18	1.19
4875	3.38	3.34	0.06	24.01	1.72	1.08	1.16	1.17
5000	3.45	3.42	0.08	23.18	1.78	1.09	1.15	1.16
6000	3.55	3.48	0.15	19.39	1.96	1.23	1.12	1.13
7000	3.71	3.64	0.13	19.26	2.22	1.29	1.17	1.18
8000	3.79	3.67	0.19	18.13	2.53	1.41	1.33	1.34
9000	3.73	3.61	0.22	19.34	2.54	1.57	1.45	1.46

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.
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