

Coaxial

# Power Splitter/Combiner

## ZFSC-2-9G+

2 Way-0° 50Ω 3500 to 9000 MHz

### Maximum Ratings

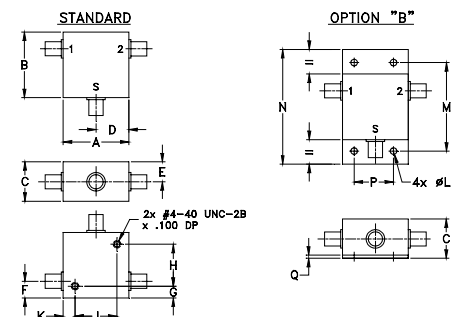
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.

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
K	L	M	N	P	Q	wt	
.800	.23	1.688	2.19	.750	.06	grams	
20.32	5.84	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



CASE STYLE: JJJ142

Connectors	Model	Price	Qty.
SMA	ZFSC-2-9G+	\$59.95	(1-9)
BRACKET (OPTION "B")		\$2.50	(1+)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

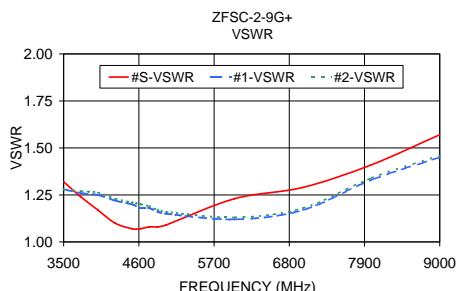
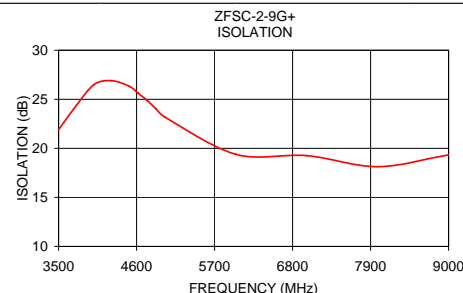
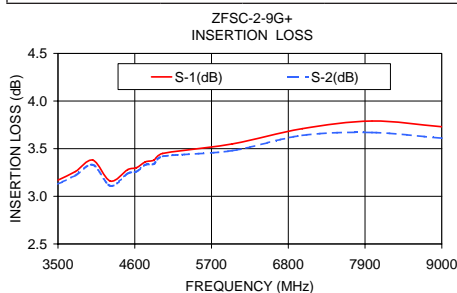
### Electrical Specifications

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

L =  $f_L$  to 6 GHz U = 6 GHz 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						
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



### electrical schematic



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Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet 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](http://www.minicircuits.com/MCLStore/terms.jsp).

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