

Coaxial

Power Splitter/Combiner

8 Way-0° 50Ω 10 to 1000 MHz

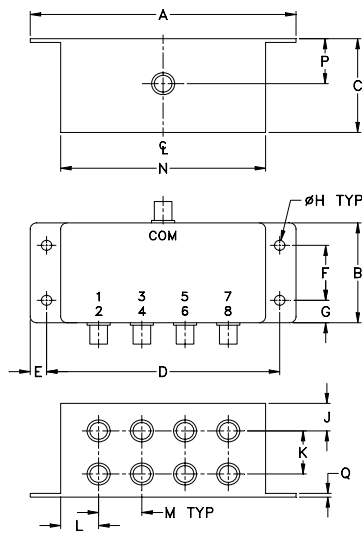
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.62W max.
Permanent damage may occur if any of these limits are exceeded.	

Coaxial Connections

SUM PORT	S(COM)
PORT 1,2,3,4,5,6,7,8	1,2,3,4,5,6,7,8

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
4.06	1.60	1.57	3.56	.24	.88	.36	.160
103.12	40.64	39.88	90.42	6.10	22.35	9.14	4.06
J	K	L	M	N	P	Q	wt.
.43	.69	.58	.66	3.13	.79	.13	grams
10.92	17.53	14.73	16.76	79.50	20.07	3.30	200

Features

- wideband, 10 to 1000 MHz
- good isolation, 25 dB typ.
- rugged shielded case

Applications

- VHF/UHF
- cellular
- signal processing
- communication systems

ZFSC-8-43+



BNC version shown
CASE STYLE: R29

Connectors	Model
BNC	ZFSC-8-43+
SMA	ZFSC-8-43-S+

+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 9.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L		M		U	
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
10-1000	23	20	25	20	26	20	1.0	1.6	1.4	2.1	2.1	2.9	5	10	20	0.4	0.4	0.7

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]

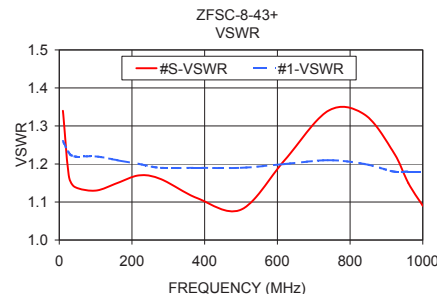
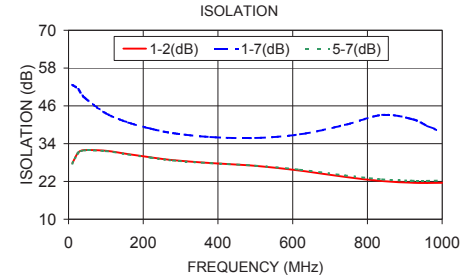
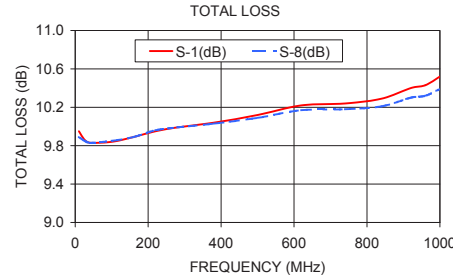
Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)						Amp. Unbal. (dB)	Isolation (dB)				Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 8
	S-1	S-2	S-3	S-4	S-6	S-8		1-2	1-7	3-4	5-7				
10.00	9.95	9.94	9.95	9.94	9.89	9.89	0.07	27.78	52.68	27.78	27.70	0.12	1.34	1.26	1.25
26.00	9.86	9.86	9.86	9.86	9.85	9.85	0.02	31.14	51.33	31.16	31.08	0.21	1.17	1.23	1.23
42.00	9.83	9.84	9.84	9.83	9.83	9.83	0.01	31.95	48.73	31.96	31.83	0.18	1.14	1.22	1.22
100.00	9.84	9.84	9.84	9.85	9.85	9.85	0.02	31.74	43.64	31.80	31.64	0.34	1.13	1.22	1.21
160.00	9.89	9.89	9.89	9.89	9.89	9.89	0.02	30.68	40.72	30.81	30.56	0.54	1.15	1.21	1.20
220.00	9.95	9.95	9.96	9.96	9.96	9.96	0.03	29.66	38.76	29.83	29.55	0.78	1.17	1.20	1.19
280.00	9.99	10.00	10.00	10.00	10.00	9.99	0.04	28.77	37.34	28.96	28.65	0.98	1.16	1.19	1.18
380.00	10.04	10.03	10.05	10.05	10.04	10.03	0.06	27.86	36.10	28.11	27.79	1.37	1.11	1.19	1.17
500.00	10.12	10.11	10.16	10.12	10.12	10.09	0.12	26.96	35.80	27.27	27.02	1.77	1.08	1.19	1.16
620.00	10.22	10.21	10.27	10.24	10.24	10.17	0.17	25.42	36.97	25.78	25.71	2.16	1.21	1.20	1.17
740.00	10.24	10.23	10.33	10.27	10.27	10.18	0.25	23.45	39.94	23.83	23.91	2.68	1.34	1.21	1.17
840.00	10.29	10.28	10.40	10.37	10.35	10.21	0.31	22.13	43.13	22.49	22.67	3.18	1.33	1.20	1.17
920.00	10.40	10.37	10.53	10.48	10.45	10.30	0.39	21.60	41.79	21.97	22.23	3.68	1.23	1.18	1.16
960.00	10.43	10.40	10.58	10.52	10.49	10.32	0.43	21.52	39.68	21.88	22.19	4.09	1.15	1.18	1.16
1000.00	10.52	10.46	10.67	10.60	10.56	10.39	0.48	21.57	37.66	21.93	22.30	4.41	1.09	1.18	1.16

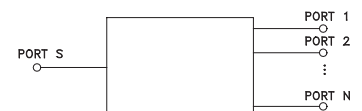
ZFSC-8-43+

1. Total Loss = Insertion Loss + 9dB splitter loss.

ZFSC-8-43+



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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