

Coaxial Power Splitter/Combiner

8 Way-0° 50Ω 5 to 700 MHz

ZFSC-8-4+
ZFSC-8-4

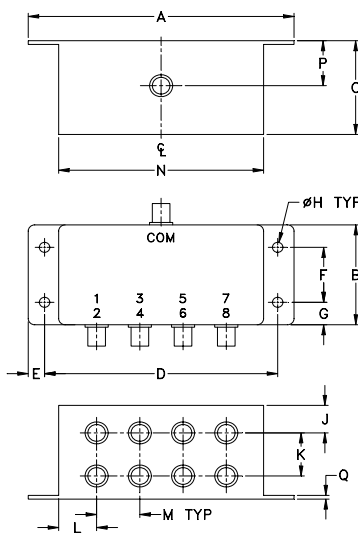
Maximum Ratings

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, 5 to 700 MHz
- good isolation, 25 dB typ.
- rugged shielded case

Applications

- VHF/UHF
- federal and defense communication
- communication systems



Generic photo used for illustration purposes only

CASE STYLE: R29

Connectors	Model
BNC	ZFSC-8-4(+)
SMA	ZFSC-8-4-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	L	M	U
f_L - f_U	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
5-700	35	20	25	17	20	17	0.8	1.2	1.2	1.8	1.8	2.5	2.0	5.0	15.0	0.2	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]

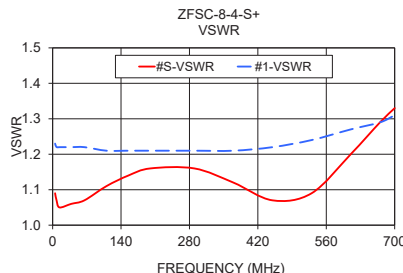
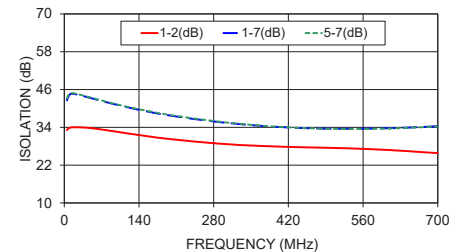
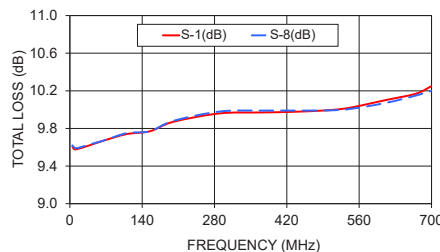
Typical Performance Data

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				
5.00	9.61	9.61	9.62	9.62	9.67	9.62	0.05	33.11	42.56	33.11	43.16	0.09	1.09	1.23	1.24
8.00	9.58	9.59	9.61	9.59	9.63	9.60	0.05	33.68	43.91	33.68	44.32	0.11	1.07	1.22	1.22
14.00	9.58	9.58	9.59	9.58	9.62	9.59	0.04	33.99	44.68	33.99	44.87	0.09	1.05	1.22	1.22
38.00	9.62	9.64	9.64	9.63	9.66	9.63	0.04	33.93	43.82	33.93	44.00	0.11	1.06	1.22	1.22
65.00	9.67	9.69	9.68	9.66	9.69	9.67	0.03	33.43	42.59	33.44	42.74	0.30	1.07	1.22	1.22
110.00	9.74	9.75	9.74	9.74	9.78	9.75	0.04	32.30	40.69	32.36	40.81	0.47	1.11	1.21	1.22
155.00	9.77	9.79	9.77	9.77	9.81	9.77	0.04	31.20	39.06	31.26	39.25	0.79	1.14	1.21	1.22
200.00	9.87	9.90	9.89	9.88	9.92	9.88	0.05	30.24	37.69	30.29	37.86	1.00	1.16	1.21	1.23
290.00	9.96	10.01	9.99	9.99	10.03	9.98	0.07	28.83	35.67	28.90	35.80	1.32	1.16	1.21	1.23
370.00	9.97	10.01	10.02	10.01	10.04	9.99	0.07	28.08	34.46	28.15	34.52	1.67	1.12	1.21	1.24
450.00	9.98	10.03	10.03	10.03	10.06	9.99	0.08	27.67	33.75	27.72	33.77	1.89	1.07	1.22	1.26
530.00	10.01	10.05	10.07	10.07	10.08	10.00	0.08	27.35	33.55	27.41	33.48	2.17	1.09	1.24	1.27
610.00	10.10	10.15	10.17	10.16	10.16	10.07	0.11	26.79	33.73	26.85	33.63	2.49	1.20	1.27	1.30
670.00	10.17	10.25	10.28	10.27	10.23	10.15	0.14	26.14	34.12	26.21	34.04	2.60	1.29	1.29	1.33
700.00	10.25	10.32	10.35	10.35	10.30	10.20	0.15	25.83	34.36	25.91	34.29	2.79	1.33	1.31	1.34

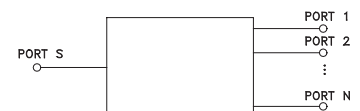
ZFSC-8-4-S+
TOTAL LOSS

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

ZFSC-8-4-S+
ISOLATION



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-Circuits' applicable established test performance criteria and measurement instructions.
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