

# Coaxial Power Splitter/Combiner

## ZFSC-8-4+ ZFSC-8-4

8 Way-0° 50Ω 5 to 700 MHz



### Maximum Ratings

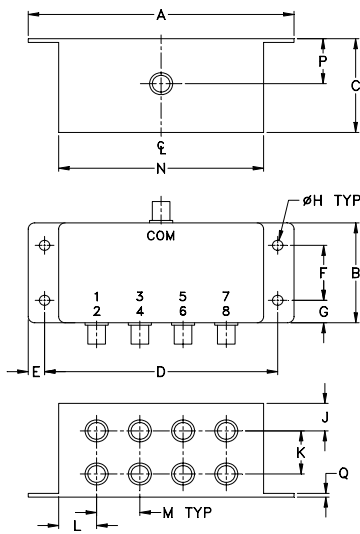
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.62W max.

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	1.50	3.56	.24	.88	.36	.160
103.12	40.64	38.10	90.42	6.10	22.35	9.14	4.06
J	K	L	M	N	P	Q	wt.
.40	.69	.58	.66	3.13	.72	.06	grams
10.16	17.53	14.73	16.76	79.50	18.29	1.52	200

### Features

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

### Applications

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

BNC version shown  
CASE STYLE: R29

Connectors	Model	Price	Qty.
BNC	ZFSC-8-4(+)	\$128.95	(1-9)
SMA	ZFSC-8-4-S+	\$153.95	(1-9)

+ 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.

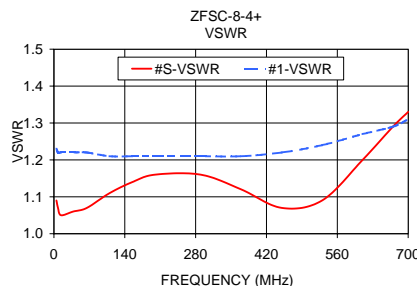
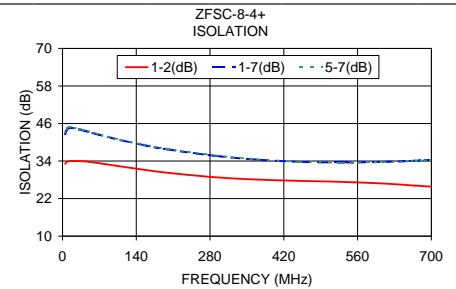
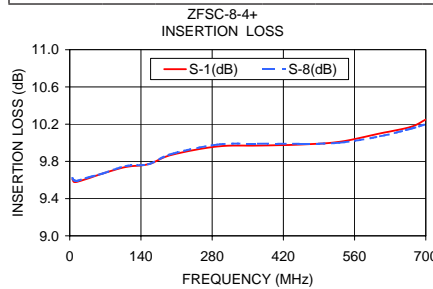
### Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 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.	Typ.	Min.	Typ.	Typ.	Max.	Typ.	Max.	Max.	Max.					
5-700	35	20	25	17	20	17	0.8	1.2	1.8	1.8	2.5	2.0	5.0	15.0	0.2	0.4	0.7

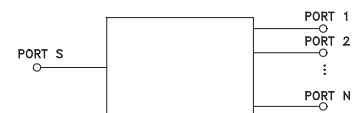
L = low range [ $f_L$  to 10  $f_L$ ] M = mid range [10  $f_L$  to  $f_U/2$ ] U = upper range [ $f_U/2$  to  $f_U$ ]

### Typical Performance Data

Freq. (MHz)	Insertion Loss (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



### electrical schematic



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