

Coaxial

Power Splitter/Combiner

8 Way-0° 50Ω 2 to 250 MHz

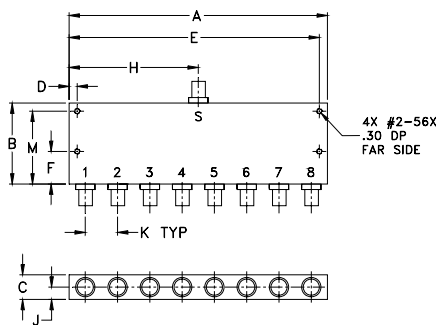
Maximum Ratings

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
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
4.00	1.25	.38	.125	3.875	.500
101.60	31.75	9.65	3.18	98.43	12.70
G	H	J	K	M	wt
--	2.00	.19	.500	1.125	grams
--	50.80	4.83	12.70	28.58	77

Features

- high isolation, 30 dB typ.
- low insertion loss, 0.8 dB typ.
- rugged shielded case

Applications

- VHF
- FM broadcasting
- amateur radio
- federal and defense communications

ZCSC-8-1+



CASE STYLE: UU215

Connectors	Model	Price	Qty.
SMA	ZCSC-8-1+	\$119.95 ea.	(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

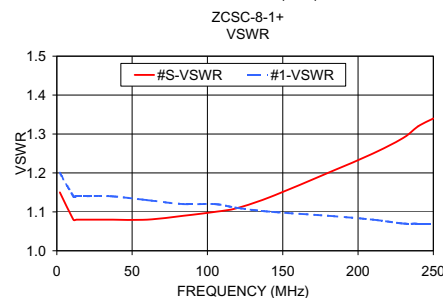
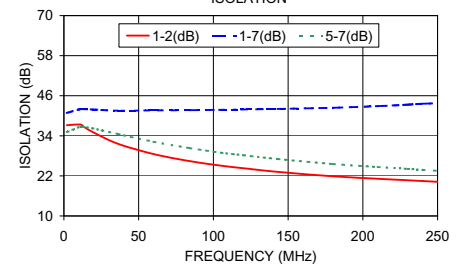
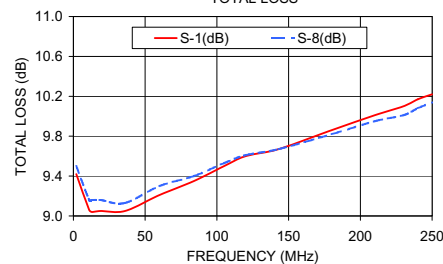
FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 9.0 dB			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L	M	U	L	M	U	L	M	U	L	M	U
f_L - f_U	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.
2-250	37	27	30	20	24	18	0.65	1.2	0.8	1.2	1.0	1.6
	2.0	4.0	8.0	0.2	0.3	0.5						

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]

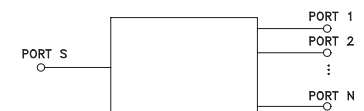
Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)						Amplitude Unbalance (dB)				Isolation (dB)				VSWR		
	S-1	S-2	S-3	S-4	S-6	S-8	1-2	1-7	3-4	5-7	1-2	1-7	3-4	5-7	S	1	8
2.00	9.42	9.44	9.50	9.54	9.51	9.50	0.12	37.19	40.87	38.99	35.10	1.15	1.20	1.21			
11.00	9.06	9.07	9.16	9.20	9.12	9.16	0.14	37.38	42.00	39.26	36.73	1.08	1.14	1.14			
13.00	9.04	9.08	9.17	9.20	9.11	9.16	0.15	36.80	41.97	38.61	36.66	1.08	1.14	1.14			
19.00	9.05	9.08	9.17	9.19	9.13	9.16	0.14	35.20	41.88	36.71	36.25	1.08	1.14	1.14			
36.00	9.05	9.06	9.15	9.13	9.16	9.13	0.11	31.64	41.53	32.78	34.55	1.08	1.14	1.14			
60.00	9.21	9.24	9.31	9.26	9.24	9.30	0.09	28.55	41.61	29.47	32.23	1.08	1.13	1.13			
84.00	9.35	9.37	9.42	9.36	9.36	9.40	0.08	26.44	41.67	27.27	30.34	1.09	1.12	1.13			
105.00	9.50	9.52	9.55	9.49	9.43	9.53	0.13	25.07	41.80	25.86	28.96	1.10	1.12	1.12			
120.00	9.60	9.61	9.63	9.57	9.50	9.61	0.13	24.29	41.89	25.10	28.19	1.11	1.11	1.11			
143.00	9.67	9.68	9.71	9.62	9.58	9.67	0.13	23.21	42.04	23.99	27.04	1.14	1.10	1.10			
180.00	9.86	9.88	9.88	9.79	9.75	9.82	0.13	21.88	42.39	22.66	25.56	1.20	1.09	1.09			
210.00	10.01	10.03	10.01	9.92	9.93	9.95	0.13	21.14	42.89	21.95	24.66	1.25	1.08	1.07			
230.00	10.10	10.12	10.08	9.98	10.03	10.01	0.16	20.69	43.34	21.53	24.12	1.29	1.07	1.06			
240.00	10.17	10.20	10.16	10.06	10.10	10.08	0.15	20.45	43.60	21.30	23.82	1.32	1.07	1.06			
250.00	10.22	10.26	10.23	10.11	10.17	10.14	0.16	20.22	43.74	21.08	23.51	1.34	1.07	1.05			

ZCSC-8-1+ 1. Total Loss = Insertion Loss + 9dB splitter loss.



electrical schematic



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