

Coaxial

Power Splitter/Combiner

6 Way-0° 75Ω 1 to 200 MHz

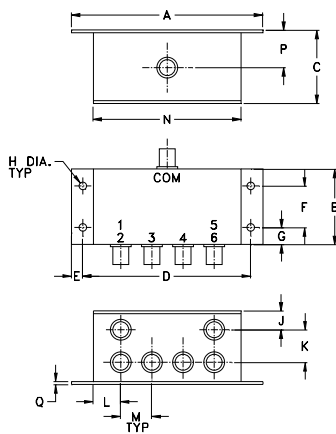
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.5W max.
Permanent damage may occur if any of these limits are exceeded.	

Coaxial Connections

SUM PORT	S
PORT 1,2,3,4,5,6	1,2,3,4,5,6

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	.8	.125	grams
10.92	17.53	14.73	16.76	79.50	20.32	3.18	190.0

Features

- low insertion loss, 0.75 dB typ.
- good isolation, 26 dB typ.
- rugged shielded case

Applications

- VHF
- receivers and transmitters
- instrumentation



BNC version shown

CASE STYLE: Q28

Connectors Model

BNC ZFSC-6-1-75(+)

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications

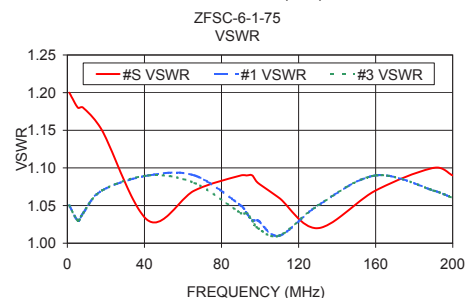
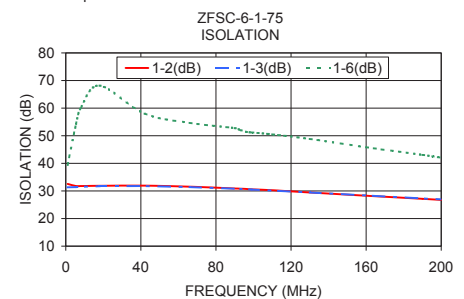
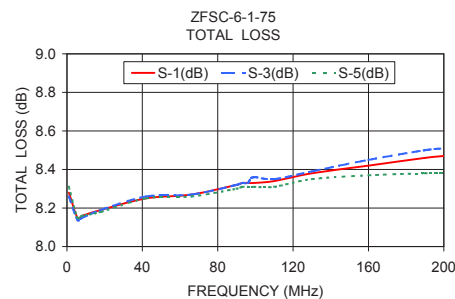
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 7.8 dB						PHASE UNBALANCE (Degrees)						AMPLITUDE UNBALANCE (dB)					
	L		M		U		L		M		U		L		M		U		L		M		U	
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
1-200	30	25	30	22	20	18	0.75	1.0	0.75	1.0	0.9	1.2	2	6	12	0.2	0.4	0.6						

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

Frequency (MHz)	Total Loss ¹ (dB)			Amplitude Unbalance (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 3
	S-1	S-3	S-5		1-2	1-3	1-6				
1.00	8.28	8.26	8.31	0.05	32.54	31.31	39.43	0.66	1.20	1.05	1.05
5.50	8.15	8.14	8.15	0.03	31.77	31.40	54.26	0.15	1.18	1.03	1.03
8.20	8.16	8.15	8.16	0.03	31.79	31.50	60.29	0.09	1.18	1.04	1.04
18.00	8.19	8.19	8.18	0.03	31.87	31.73	68.17	0.21	1.15	1.07	1.07
42.00	8.25	8.26	8.25	0.02	31.92	31.77	58.01	0.41	1.03	1.09	1.09
66.00	8.27	8.27	8.26	0.04	31.55	31.39	54.67	0.67	1.07	1.09	1.08
90.00	8.32	8.32	8.30	0.03	30.91	30.81	52.78	0.85	1.09	1.05	1.04
93.00	8.33	8.33	8.31	0.02	30.82	30.74	52.08	0.84	1.09	1.04	1.04
96.00	8.33	8.33	8.31	0.03	30.72	30.63	51.39	0.89	1.09	1.03	1.03
99.00	8.33	8.36	8.31	0.05	30.59	30.50	51.19	0.93	1.08	1.03	1.02
110.00	8.34	8.35	8.31	0.04	30.25	30.13	50.51	1.08	1.06	1.01	1.01
130.00	8.38	8.39	8.35	0.05	29.45	29.45	48.83	1.24	1.02	1.05	1.05
160.00	8.42	8.45	8.37	0.09	28.28	28.36	45.83	1.55	1.07	1.09	1.09
190.00	8.46	8.50	8.38	0.12	27.13	27.29	43.07	1.95	1.10	1.07	1.07
200.00	8.47	8.51	8.38	0.13	26.75	26.94	42.04	2.08	1.09	1.06	1.06

1. Total Loss = Insertion Loss + 7.8dB splitter loss.



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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