Coaxial

Power Splitter/Combiner

ZFSC-6-1-75+
ZFSC-6-1-75

6 Way-0° 75Ω 1 to 200 MHz

BNC version shown

CASE STYLE: Q28

Connectors	Model	Price	Qty.
BNC	ZFSC-6-1-75(+)	$102.95	(1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

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

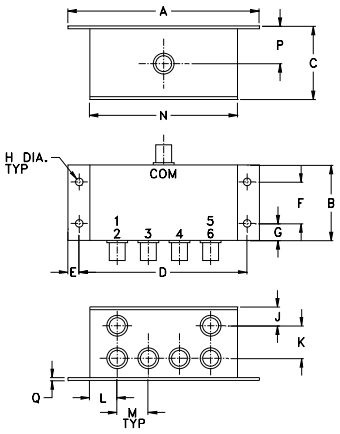
Features

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

Applications

- VHF
- receivers and transmitters
- instrumentation

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
.4	.69	.58	.66	3.13	.8	.06	grams
10.16	17.53	14.73	16.76	79.50	20.32	1.52	190.0

Electrical Specifications

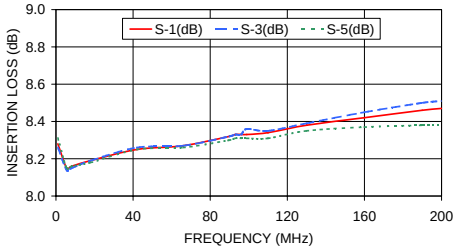
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 7.8 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
f_L-f_U	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
1-200	30	25	30	22	20	18	0.75	1.0	0.75	1.0	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]

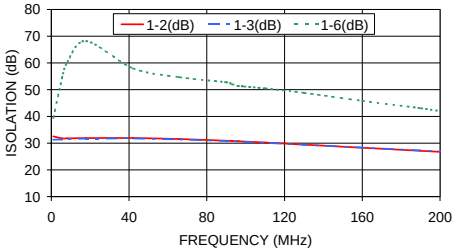
Typical Performance Data

Frequency (MHz)	Insertion Loss (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

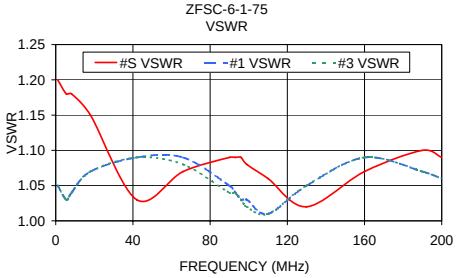
ZFSC-6-1-75
INSERTION LOSS



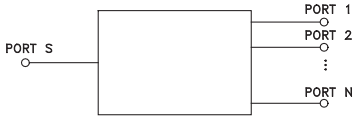
ZFSC-6-1-75
ISOLATION



ZFSC-6-1-75
VSWR



electrical schematic



Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. **2.** Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. **3.** The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp.

REV. A
M107159
ZFSC-6-1-75
HY/TD/CP/AM
090827