

Coaxial

Power Splitter/Combiner

ZSC-3-1-75+

3 Way-0° 75Ω 1 to 200 MHz



Generic photo used for illustration purposes only

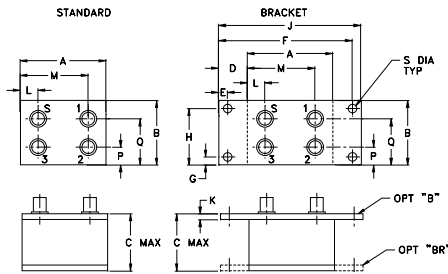
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.375W max.
Permanent damage may occur if any of these limits are exceeded.	

Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2
PORT 3	3

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	
2.25	1.38	1.24	.50	.150	3.100	.138	1.238	
57.15	35.05	31.50	12.70	3.81	78.74	3.51	31.45	
J	K	L	M	N	P	Q	S	wt
3.25	.10	.78	1.47	--	.38	1.00	.150	grams
82.55	2.54	19.81	37.34	--	9.65	25.40	3.81	110.0

Features

- low insertion loss, 0.4 dB typ.
- high isolation, 35 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 0.5 deg. typ.
- rugged shielded case

Applications

- VHF
- instrumentation
- radio communication system

CASE STYLE: P25

Connectors Model

BNC ZSC-3-1-75+

BRACKET (OPTION "B")

BRACKET (OPTION "BR")

+RoHS Compliant

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

Splitter Electrical Specifications

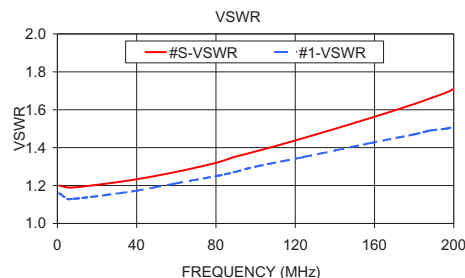
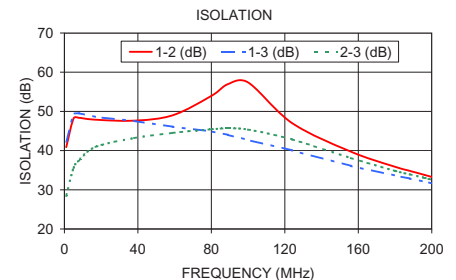
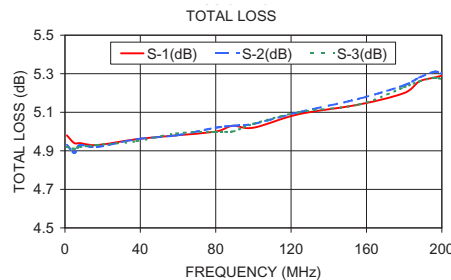
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 4.8 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
f_L - f_U	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
1-200	35	30	35	25	35	25	0.6	1.0	0.4	0.7	0.6	1.0	2.0	3.0	4.0	0.15	0.2	0.3

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 2	VSWR 3
	S-1	S-2	S-3		1-2	1-3	2-3					
1.00	4.98	4.93	4.92	0.06	40.87	42.29	28.44	0.48	1.20	1.16	1.19	1.18
5.00	4.94	4.89	4.91	0.05	48.19	49.46	35.58	0.32	1.19	1.13	1.13	1.12
8.00	4.94	4.93	4.92	0.02	48.35	49.54	37.59	0.17	1.19	1.13	1.13	1.13
17.00	4.93	4.92	4.93	0.01	47.87	48.58	40.94	0.15	1.20	1.14	1.14	1.13
38.00	4.96	4.96	4.95	0.02	47.63	47.55	43.21	0.11	1.23	1.17	1.17	1.16
59.00	4.98	4.98	4.99	0.01	49.01	46.07	44.52	0.19	1.27	1.21	1.20	1.20
80.00	5.00	5.02	5.00	0.02	53.96	44.90	45.44	0.09	1.32	1.25	1.25	1.25
89.00	5.03	5.03	5.00	0.03	56.96	44.03	45.65	0.19	1.35	1.27	1.27	1.27
100.00	5.02	5.04	5.04	0.02	57.39	42.71	45.36	0.29	1.38	1.30	1.30	1.29
124.00	5.09	5.10	5.10	0.02	47.00	40.05	42.84	0.22	1.45	1.35	1.35	1.35
156.00	5.14	5.17	5.14	0.03	39.72	36.08	38.10	0.22	1.55	1.42	1.42	1.42
180.00	5.20	5.24	5.23	0.03	35.87	33.63	34.83	0.35	1.63	1.47	1.46	1.46
188.00	5.26	5.28	5.26	0.02	34.82	32.87	33.92	0.10	1.66	1.49	1.48	1.48
196.00	5.28	5.31	5.28	0.03	33.80	32.08	33.04	0.28	1.69	1.50	1.49	1.49
200.00	5.29	5.30	5.27	0.03	33.27	31.63	32.52	0.28	1.71	1.51	1.50	1.50

1. Total Loss = Insertion Loss + 4.8dB splitter loss.



electrical schematic



Notes

- 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.
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 M153690
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