

Coaxial Power Splitter/Combiner

ZSC-3-1+ ZSC-3-1

3 Way-0° 50Ω 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

Features

- low insertion loss, 0.4 dB typ.
- high isolation, 40 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 1 deg. typ.
- excellent VSWR, 1.5:1 typ.
- rugged shielded case

Applications

- VHF
- instrumentation
- communication system

CASE STYLE: P25

Connectors	Model
BNC	ZSC-3-1(+)
BRACKET (OPTION "B")	
BRACKET (OPTION "BR")	

+RoHS Compliant

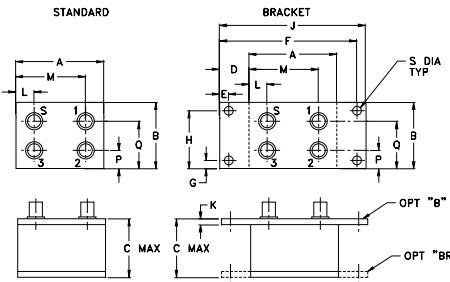
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
f_L - f_U																		
1-200	45	30	40	25	40	25	0.3	0.5	0.4	0.7	0.6	1.0	1	2	4	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]

Outline Drawing



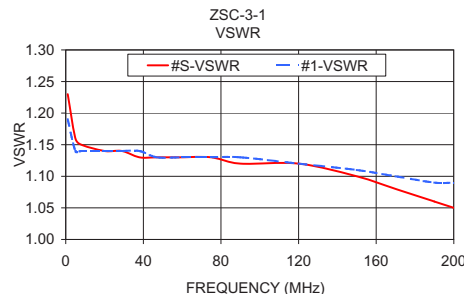
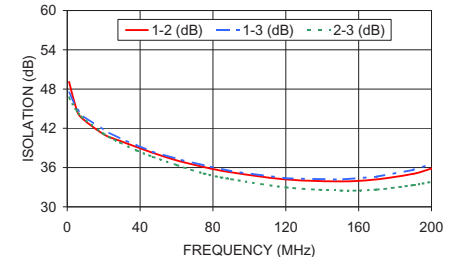
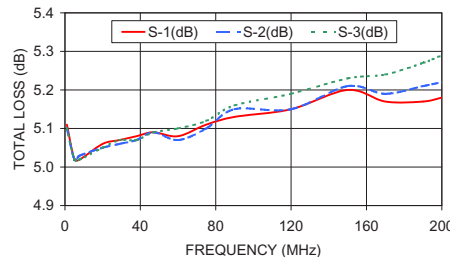
Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	S	wt
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									
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

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	5.11	5.10	5.10	0.00	49.11	47.46	46.70	0.05	1.23	1.19	1.19	1.18
5.00	5.02	5.02	5.02	0.00	44.98	45.11	44.74	0.04	1.16	1.14	1.14	1.14
8.00	5.02	5.03	5.02	0.01	43.57	44.02	43.72	0.09	1.15	1.14	1.14	1.14
20.00	5.06	5.05	5.05	0.01	41.08	41.74	41.14	0.19	1.14	1.14	1.13	1.13
29.00	5.07	5.06	5.07	0.01	40.08	40.44	39.84	0.21	1.14	1.14	1.13	1.13
38.00	5.08	5.07	5.07	0.01	39.15	39.44	38.61	0.30	1.13	1.14	1.13	1.13
47.00	5.09	5.09	5.09	0.00	38.26	38.41	37.64	0.42	1.13	1.13	1.13	1.13
60.00	5.08	5.07	5.10	0.03	37.10	37.35	36.39	0.56	1.13	1.13	1.13	1.13
75.00	5.11	5.10	5.12	0.01	36.09	36.35	35.09	0.63	1.13	1.13	1.13	1.13
90.00	5.13	5.15	5.16	0.03	35.28	35.44	34.23	0.76	1.12	1.13	1.13	1.12
120.00	5.15	5.15	5.19	0.04	34.19	34.35	32.97	1.13	1.12	1.12	1.12	1.12
150.00	5.20	5.21	5.23	0.03	33.89	34.16	32.49	1.26	1.10	1.11	1.12	1.11
170.00	5.17	5.19	5.24	0.07	34.20	34.61	32.64	1.46	1.08	1.10	1.11	1.10
190.00	5.17	5.21	5.27	0.09	35.05	35.66	33.32	1.55	1.06	1.09	1.10	1.10
200.00	5.18	5.22	5.29	0.10	35.86	36.56	33.82	1.70	1.05	1.09	1.10	1.10

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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