Coaxial

Power Splitter/Combiner

ZSC-3-2+

3 Way-0° 50Ω 0.01 to 30 MHz

CASE STYLE: P25

Connectors	Model	Price	Qty.
BNC	ZSC-3-2+	$61.95	(1-9)
BRACKET (OPTION "B")		$5.00	(1+)
BRACKET (OPTION "BR")		$1.50	(1+)

+ 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.

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.

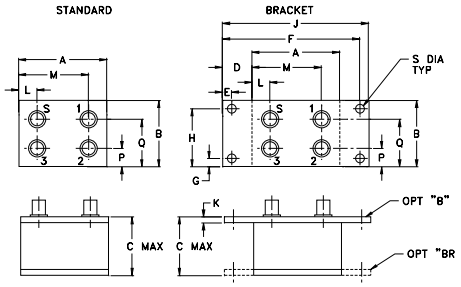
At low range frequency band(f_L to 10f_L), linearly derate maximum input power by 13 dB.

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, 0.15 dB typ.
- high isolation, 40 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 0.5 deg. typ.
- rugged shielded case

Applications

- HF
- amateur radio
- communication system

Electrical Specifications

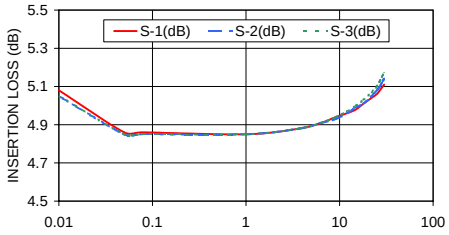
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 4.8 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
f_L-f_U	Typ.	Min.	Typ.	Min.	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
0.01-30	35	30	40	25	30	25	0.25	0.45	0.15	0.45	0.45	0.75	1.0	2.0	4.0	0.2	0.3	0.4

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]

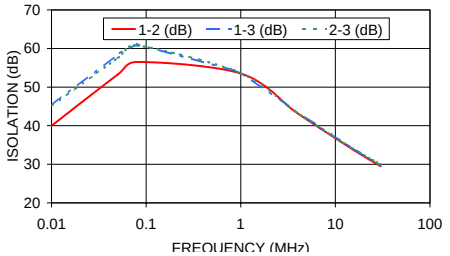
Typical Performance Data

Freq. (MHz)	Insertion Loss (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					
0.01	5.08	5.05	5.05	0.03	39.98	45.28	45.16	0.66	2.19	2.06	2.06	2.11
0.05	4.86	4.85	4.85	0.01	53.25	58.54	57.54	0.04	1.23	1.19	1.19	1.19
0.08	4.86	4.85	4.85	0.01	56.50	61.15	60.78	0.00	1.17	1.13	1.13	1.14
1.00	4.85	4.85	4.85	0.01	53.52	53.82	53.61	0.02	1.12	1.08	1.08	1.09
3.70	4.88	4.88	4.88	0.00	43.77	44.01	43.84	0.03	1.12	1.07	1.07	1.07
6.40	4.91	4.91	4.91	0.00	39.85	40.14	40.01	0.04	1.13	1.06	1.06	1.06
9.10	4.94	4.93	4.94	0.00	37.40	37.69	37.59	0.06	1.14	1.04	1.04	1.05
12.00	4.96	4.96	4.97	0.01	35.48	35.76	35.70	0.09	1.15	1.03	1.03	1.04
15.00	4.98	4.99	5.00	0.01	33.96	34.24	34.22	0.11	1.17	1.02	1.03	1.04
18.00	5.01	5.01	5.03	0.02	32.75	33.02	33.05	0.14	1.19	1.04	1.05	1.05
22.00	5.04	5.05	5.07	0.03	31.46	31.70	31.79	0.18	1.23	1.08	1.08	1.09
25.00	5.06	5.08	5.10	0.04	30.64	30.87	31.02	0.22	1.26	1.11	1.12	1.12
27.00	5.08	5.10	5.13	0.05	30.16	30.36	30.57	0.24	1.29	1.13	1.14	1.14
29.00	5.10	5.13	5.16	0.06	29.70	29.88	30.13	0.26	1.33	1.16	1.17	1.17
30.00	5.11	5.14	5.17	0.06	29.48	29.65	29.91	0.27	1.34	1.18	1.18	1.18

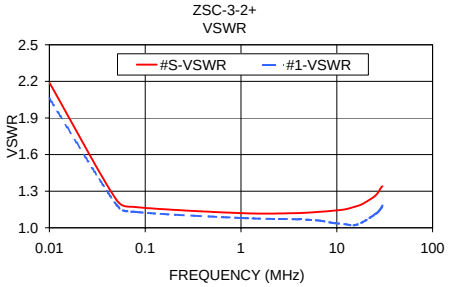
ZSC-3-2+
INSERTION LOSS



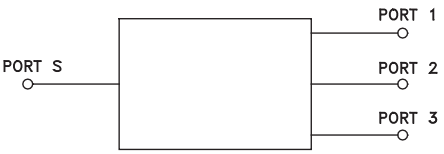
ZSC-3-2+
ISOLATION



ZSC-3-2+
VSWR



electrical schematic



REV. B
M113397
ZSC-3-2+
HY/TD/CP/AM
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