Coaxial

Power Splitter/Combiner

3 Way-0° 50Ω 1 to 200 MHz

ZMSC-3-1+
ZMSC-3-1

CASE STYLE: P26

Connectors	Model
SMA	ZMSC-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

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.

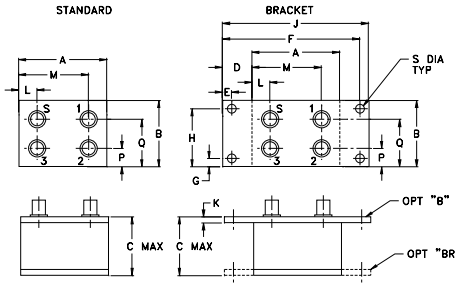
Coaxial Connections

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

Features
- rugged shielded case

Applications
- VHF
- instrumentation
- radio communication system

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F	G	H
1.50	1.13	1.00	.50	.155	2.345	.138	.987
38.10	28.70	25.40	12.70	3.94	59.56	3.51	25.07

J	K	L	M	N	P	Q	S	wt
2.50	.10	.50	1.00	--	.31	.81	.150	grams
63.50	2.54	12.70	25.40	--	7.87	20.57	3.81	60.0

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	45	35	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

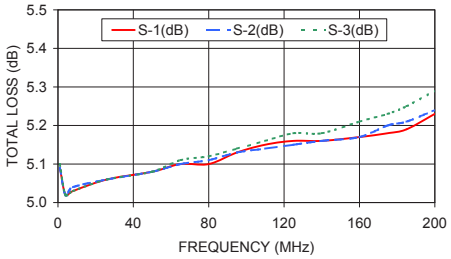
L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U= upper range [f_U/2 to f_U]

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	5.09	5.09	5.10	0.01	46.35	47.66	41.10	0.06	1.11	1.09	1.09	1.09
4.00	5.02	5.02	5.02	0.01	45.95	46.40	38.74	0.07	1.06	1.04	1.03	1.04
8.00	5.03	5.04	5.03	0.01	44.98	45.00	37.47	0.09	1.04	1.02	1.02	1.02
26.00	5.06	5.06	5.06	0.00	41.67	42.34	36.29	0.19	1.03	1.02	1.02	1.02
50.00	5.08	5.08	5.08	0.00	38.76	40.53	35.80	0.43	1.04	1.02	1.02	1.02
65.00	5.10	5.10	5.11	0.01	37.43	39.67	35.68	0.53	1.05	1.03	1.02	1.02
80.00	5.10	5.11	5.12	0.02	36.35	38.96	35.64	0.64	1.05	1.03	1.02	1.02
95.00	5.13	5.13	5.14	0.01	35.50	38.55	35.78	0.79	1.06	1.04	1.02	1.02
110.00	5.15	5.14	5.16	0.02	34.89	38.39	36.01	0.90	1.06	1.04	1.02	1.02
125.00	5.16	5.15	5.18	0.02	34.50	38.52	36.51	0.95	1.07	1.04	1.02	1.02
140.00	5.16	5.16	5.18	0.03	34.28	38.84	37.29	1.08	1.07	1.05	1.02	1.02
160.00	5.17	5.17	5.21	0.04	34.27	39.90	38.89	1.17	1.08	1.05	1.02	1.02
175.00	5.18	5.20	5.23	0.05	34.50	41.29	40.75	1.29	1.08	1.05	1.02	1.02
185.00	5.19	5.21	5.25	0.06	34.78	42.35	42.20	1.31	1.09	1.05	1.02	1.02
200.00	5.23	5.24	5.29	0.06	35.36	43.22	43.31	1.48	1.10	1.05	1.01	1.02

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

ZMSC-3-1
TOTAL LOSS



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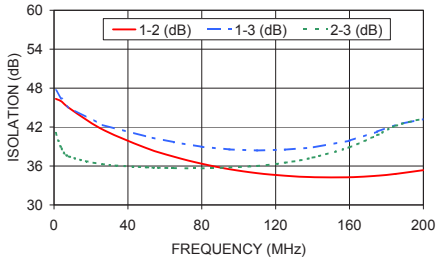
ISOLATION



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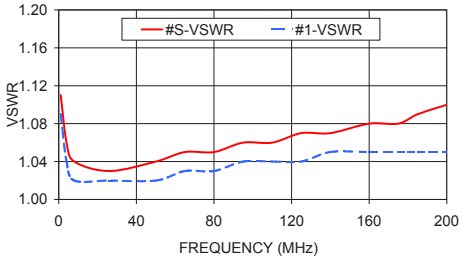
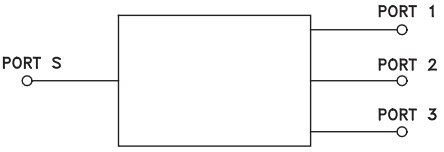
VSWR



electrical schematic



Notes
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