Plug-In

Power Splitter/Combiner

PSC-2-2-75+
PSC-2-2-75

2 Way-0° 75Ω 0.008 to 60 MHz

CASE STYLE: A01

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	0.125W max.

Permanent damage may occur if any of these limits are exceeded.

Pin Connections

SUM PORT	1
PORT 1	5
PORT 2	6
GROUND	2,3,4,7,8
CASE GROUND	2,3,4,7,8

Features

- low insertion loss, 0.15 dB typ.
- high isolation, 40 dB typ.
- rugged welded construction

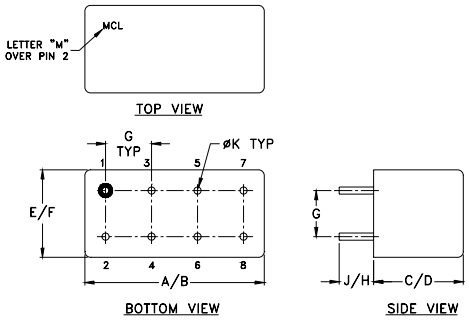
Applications

- HF/VHF
- amateur radio
- communications systems

+RoHS Compliant

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

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F
.770	.800	.385	.400	.370	.400
19.56	20.32	9.78	10.16	9.40	10.16
G	**H**	**J**	**K**		**wt**
.200	.20	.14	.031		grams
5.08	5.08	3.56	0.79		5.2

Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 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.
0.008-60	35	18	40	25	30	22	0.1	0.4	0.15	0.4	0.3	0.8	1.0	1.0	1.0	0.15	0.15	0.15

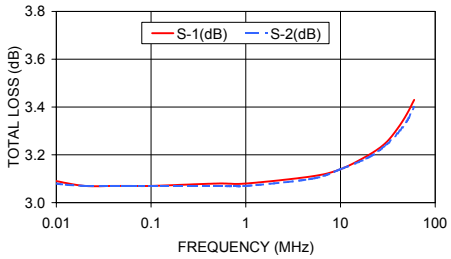
L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U= upper range [f_U/2 to f_U]
At low range frequency band, [f_L to 10 f_L], linearly derate maximum input power by 13 dB.

Typical Performance Data

Frequency (MHz)	Total Loss[1] (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
0.008	3.10	3.10	0.01	20.91	0.02	1.17	1.37	1.37
0.010	3.09	3.08	0.01	22.62	0.05	1.16	1.30	1.29
0.020	3.07	3.07	0.00	28.12	0.02	1.14	1.16	1.17
0.040	3.07	3.07	0.00	33.16	0.01	1.14	1.11	1.11
0.060	3.07	3.07	0.00	35.56	0.02	1.14	1.10	1.09
0.100	3.07	3.07	0.00	37.69	0.02	1.14	1.09	1.09
0.500	3.08	3.07	0.01	39.73	0.01	1.14	1.09	1.09
1.000	3.08	3.07	0.00	39.82	0.01	1.14	1.09	1.09
5.000	3.11	3.10	0.01	39.69	0.01	1.15	1.08	1.08
10.000	3.14	3.14	0.00	38.83	0.01	1.16	1.09	1.09
20.000	3.20	3.19	0.01	36.05	0.01	1.19	1.12	1.12
30.000	3.25	3.24	0.01	33.46	0.01	1.22	1.16	1.16
40.000	3.31	3.29	0.02	31.04	0.02	1.26	1.21	1.21
50.000	3.37	3.34	0.03	28.63	0.01	1.31	1.26	1.26
60.000	3.43	3.40	0.03	26.39	0.03	1.36	1.31	1.31

1. Total Loss = Insertion Loss + 3dB splitter loss.

PSC-2-2-75
TOTAL LOSS



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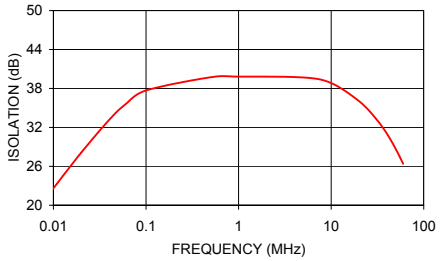
ISOLATION



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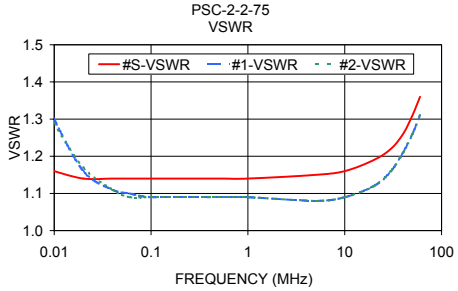
VSWR



electrical schematic

Notes

A. 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.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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