

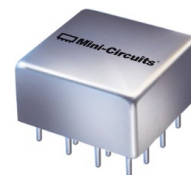
Plug-In

NON-CATALOG

Power Splitter/Combiner

PSC-6-1-75

6 Way-0° 75Ω 1 to 300 MHz



CASE STYLE: C07
PRICE: Contact Sales Dept.

Maximum Ratings

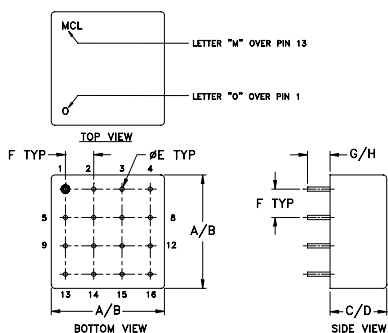
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.5W max.

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

Pin Connections

SUM PORT	1
PORT 1	3
PORT 2	4
PORT 3	8
PORT 4	12
PORT 5	16
PORT 6	15
GROUND	2,5,7,11,13,14
CASE GROUND	2,5,7,11,13,14
NOT USED	6,9,10

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	wt
.770	.810	.380	.410	.030	.200	.20	.14	grams
19.56	20.57	9.65	10.41	0.76	5.08	5.08	3.56	11.0

Features

- low insertion loss, 0.6 dB typ.
- high isolation, 30 dB typ.
- excellent amplitude unbalance, 0.3 dB typ.
- rugged welded case

Applications

- VHF
- radio communication
- instrumentation

Electrical Specifications

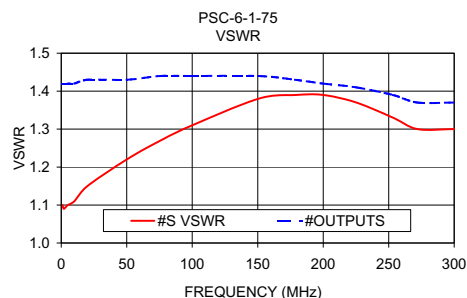
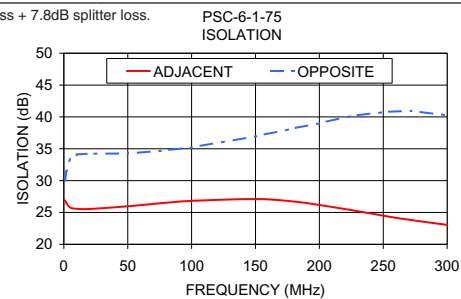
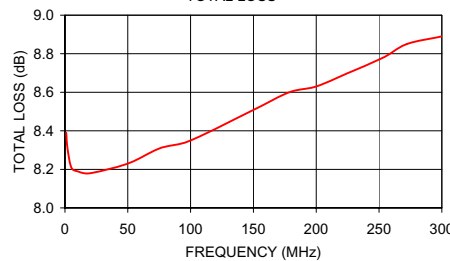
FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 7.8 dB			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L	M	U	L	M	U	L	M	U	L	M	U
f_L - f_U	Typ.	Min.	Typ. Min.	Typ.	Max.	Typ. Max.	Typ.	Max.	Typ. Max.	Max.	Max.	Max.
1-300	35	25	30 23	25	18	0.6 1.2	0.6 1.1	0.6 1.3	2	4	8	0.2 0.3 0.6

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

Frequency (MHz)	Total Loss ¹ (dB)	Amplitude Unbalance (dB)	Isolation (dB)		VSWR S	VSWR OUTPUTS
			Adjacent	Opposite		
1.00	8.39	0.04	26.90	30.03	1.10	1.42
2.00	8.31	0.10	26.50	31.48	1.09	1.42
5.00	8.21	0.09	25.77	33.43	1.10	1.42
10.00	8.19	0.12	25.58	34.11	1.11	1.42
20.00	8.18	0.04	25.55	34.23	1.15	1.43
50.00	8.23	0.05	25.97	34.27	1.22	1.43
75.80	8.31	0.03	26.45	34.68	1.27	1.44
100.00	8.35	0.03	26.82	35.20	1.31	1.44
150.50	8.51	0.05	27.11	36.97	1.38	1.44
178.50	8.60	0.10	26.75	38.15	1.39	1.43
200.00	8.63	0.08	26.18	39.01	1.39	1.42
225.30	8.70	0.13	25.36	40.17	1.37	1.41
253.30	8.78	0.19	24.39	40.81	1.33	1.39
272.00	8.85	0.22	23.80	40.95	1.30	1.37
300.00	8.89	0.22	23.06	40.25	1.30	1.37

PSC-6-1-75 1. Total Loss = Insertion Loss + 7.8dB splitter loss.



electrical schematic



For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicircuits.com

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