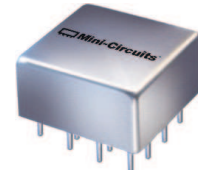


Plug-In

Power Splitter/Combiner

PSC-6-1+

6 Way-0° 50Ω 1 to 175 MHz



CASE STYLE: C07
PRICE: \$80.45 ea. QTY. (1-9)

+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	0.5W 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

Features

- low insertion loss, 0.6 dB typ.
- high isolation, 30 dB typ.
- rugged welded case
- excellent amplitude unbalance, 0.1 dB typ.

Applications

- VHF
- radio communication
- instrumentation

Electrical Specifications

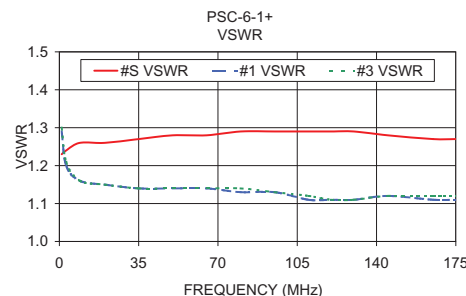
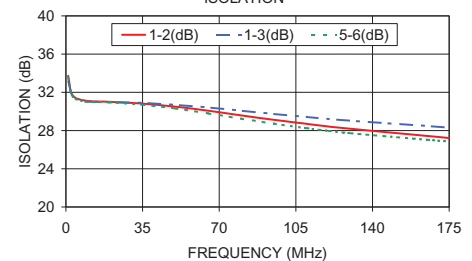
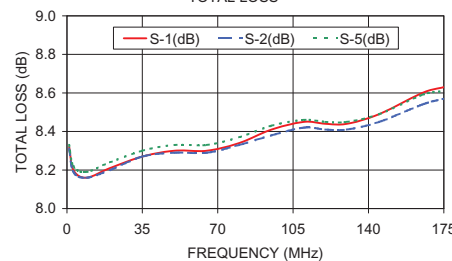
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 7.8 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
f_L - f_U																		
1-175	35	25	30	23	25	18	0.6	1.2	0.6	1.1	0.6	1.3	2	4	8	0.1	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)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 3
	S-1	S-2	S-3		1-2	1-3	5-6				
	1.00	8.32	8.31		8.33	0.03	33.73				
3.00	8.20	8.19	8.22	0.03	31.72	31.45	31.60	0.14	1.24	1.20	1.21
9.00	8.16	8.16	8.19	0.04	31.13	31.02	31.05	0.14	1.26	1.16	1.16
20.00	8.21	8.20	8.24	0.04	31.01	30.97	30.95	0.19	1.26	1.15	1.15
35.00	8.27	8.27	8.30	0.04	30.82	30.90	30.70	0.28	1.27	1.14	1.14
50.00	8.30	8.29	8.33	0.04	30.50	30.69	30.31	0.38	1.28	1.14	1.14
65.00	8.30	8.29	8.33	0.04	30.08	30.42	29.79	0.51	1.28	1.14	1.14
80.00	8.34	8.33	8.37	0.04	29.59	30.08	29.24	0.60	1.29	1.13	1.14
95.00	8.41	8.38	8.43	0.05	29.12	29.73	28.72	0.75	1.29	1.13	1.13
110.00	8.45	8.42	8.46	0.04	28.70	29.42	28.25	0.83	1.29	1.11	1.12
120.00	8.44	8.41	8.45	0.05	28.42	29.20	27.96	0.92	1.29	1.11	1.11
130.00	8.44	8.41	8.45	0.05	28.19	29.03	27.72	0.97	1.29	1.11	1.11
145.00	8.49	8.45	8.49	0.06	27.86	28.79	27.42	1.11	1.28	1.12	1.12
165.00	8.60	8.54	8.59	0.08	27.44	28.48	27.03	1.21	1.27	1.11	1.12
175.00	8.63	8.57	8.61	0.09	27.21	28.30	26.86	1.43	1.27	1.11	1.12

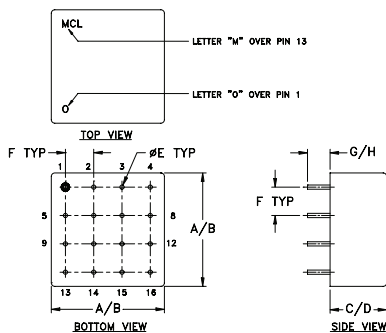
PSC-6-1+ 1. Total Loss = Insertion Loss + 7.8dB splitter loss.



electrical schematic



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



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

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp.

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