

Plug-In

Power Splitter/Combiner

PSC-3-1W+

3 Way-0° 50Ω 5 to 500 MHz

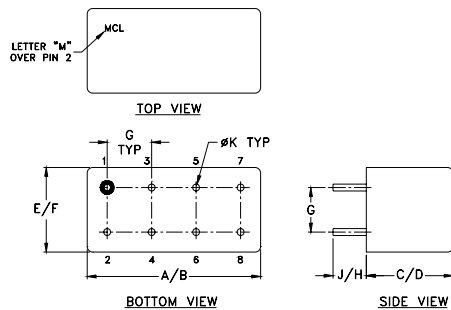
Maximum Ratings

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

Pin Connections

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

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

Features

- wideband, 5 to 500 MHz
- low insertion loss, 0.4 dB typ.
- good isolation, 31 dB typ.
- rugged welded construction

Applications

- VHF/UHF
- communication systems



Generic photo used for illustration purposes only

CASE STYLE: A01

+RoHS Compliant

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

Electrical Specifications

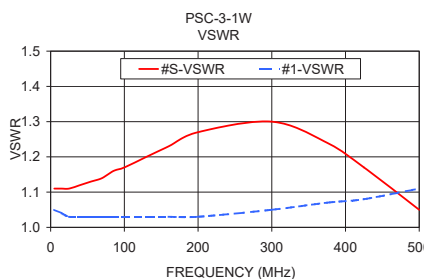
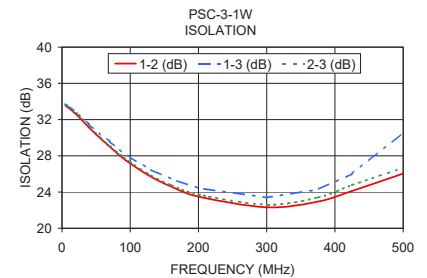
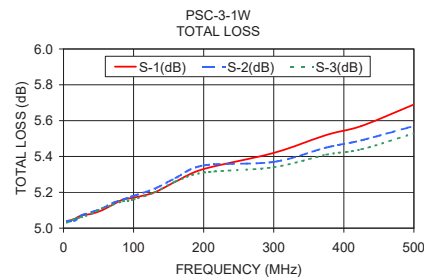
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 4.8 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L		M		U	
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
5-500	25	20	31	15	25	15	0.4	0.8	0.4	1.4	0.8	1.4	2	3	5	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

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					
5.00	5.04	5.04	5.03	0.01	33.54	33.69	33.71	0.04	1.11	1.05	1.05	1.05
15.00	5.05	5.04	5.05	0.01	32.96	33.10	33.16	0.09	1.11	1.04	1.04	1.04
25.00	5.07	5.07	5.06	0.01	32.27	32.48	32.49	0.14	1.11	1.03	1.03	1.03
40.00	5.08	5.09	5.08	0.01	31.09	31.45	31.26	0.26	1.12	1.03	1.03	1.03
55.00	5.10	5.11	5.11	0.01	30.01	30.47	30.15	0.27	1.13	1.03	1.03	1.03
70.00	5.13	5.14	5.13	0.01	29.01	29.58	29.14	0.40	1.14	1.03	1.03	1.03
85.00	5.16	5.16	5.15	0.01	28.01	28.66	28.14	0.54	1.16	1.03	1.03	1.03
100.00	5.17	5.18	5.16	0.01	27.15	27.83	27.31	0.50	1.17	1.03	1.02	1.02
130.00	5.20	5.22	5.20	0.02	25.71	26.47	25.85	0.65	1.20	1.03	1.02	1.02
160.00	5.26	5.28	5.26	0.02	24.61	25.45	24.77	0.87	1.23	1.03	1.02	1.02
200.00	5.33	5.35	5.31	0.03	23.50	24.43	23.72	0.88	1.27	1.03	1.02	1.02
300.00	5.42	5.37	5.34	0.08	22.32	23.39	22.61	1.41	1.30	1.05	1.05	1.06
375.00	5.52	5.45	5.41	0.11	22.95	24.29	23.40	1.69	1.24	1.07	1.08	1.09
425.00	5.57	5.49	5.44	0.12	24.12	26.01	24.77	1.87	1.17	1.08	1.11	1.11
500.00	5.69	5.57	5.53	0.16	26.04	30.58	26.69	2.05	1.05	1.11	1.14	1.14

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



electrical schematic



Notes

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www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

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