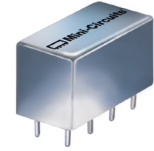


Plug-In

Power Splitter/Combiner

2 Way-0° 50Ω 1 to 650 MHz

PSC-2-1W+



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

- wideband 1 to 650 MHz
- high isolation, 35 dB typ.
- low insertion loss, 0.5 dB typ.
- rugged welded construction

Applications

- VHF/UHF
- federal & communications

+RoHS Compliant

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

Electrical Specifications

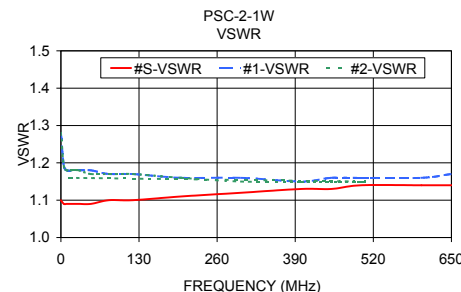
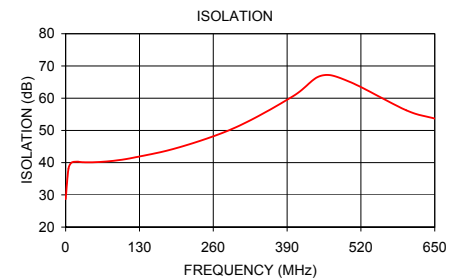
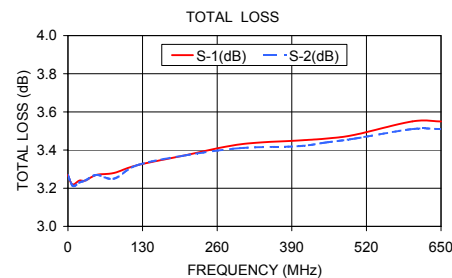
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L		M		U	
	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
1-650	25	20	35	20	25	20	0.3	0.6	0.5	0.9	0.7	1.0	2.0	3.0	4.0	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

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
1.00	3.27	3.27	0.00	28.70	0.04	1.10	1.28	1.28
5.00	3.23	3.23	0.00	38.10	0.04	1.09	1.19	1.19
10.00	3.22	3.21	0.01	39.97	0.11	1.09	1.18	1.18
20.00	3.24	3.23	0.01	40.31	0.13	1.09	1.18	1.18
30.00	3.24	3.24	0.00	40.12	0.09	1.09	1.18	1.18
50.00	3.27	3.27	0.00	40.12	0.15	1.09	1.18	1.17
80.00	3.28	3.25	0.03	40.49	0.16	1.10	1.17	1.17
120.00	3.32	3.32	0.01	41.56	0.17	1.10	1.17	1.17
200.00	3.37	3.37	0.00	44.76	0.04	1.11	1.16	1.16
300.00	3.43	3.41	0.01	50.97	0.22	1.12	1.16	1.15
400.00	3.45	3.42	0.03	60.57	0.13	1.13	1.15	1.15
450.00	3.46	3.44	0.02	66.96	0.21	1.13	1.16	1.15
500.00	3.48	3.46	0.02	65.07	0.18	1.14	1.16	1.15
600.00	3.55	3.51	0.04	56.23	0.18	1.14	1.16	1.16
650.00	3.55	3.51	0.03	53.68	0.36	1.14	1.17	1.16

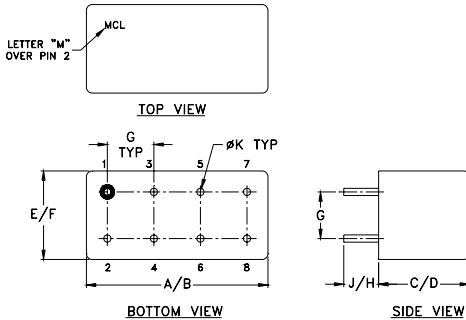
1. Total Loss = Insertion Loss + 3dB splitter loss.



electrical schematic



Outline Drawing



Outline Dimensions (inch)

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		
.200	.20	.14	.031		
5.08	5.08	3.56	0.79		
				wt	
				grams	5.2

Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.
- The parts covered by this specification document 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

