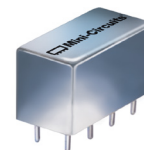


Power Splitter/Combiner

PSC-3-1W

3 Way-0° 50Ω 5 to 500 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	0.375W 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

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

+RoHS Compliant

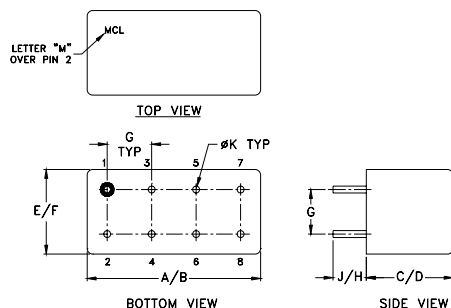
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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	
f_L - f_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]

Outline Drawing



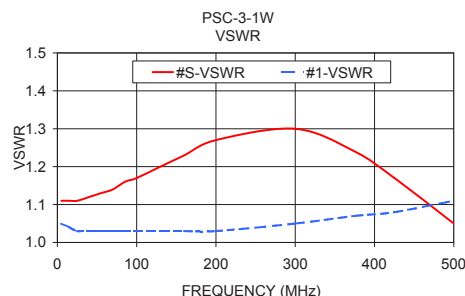
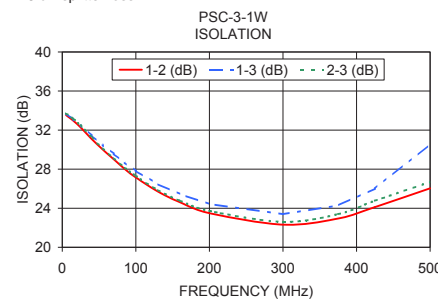
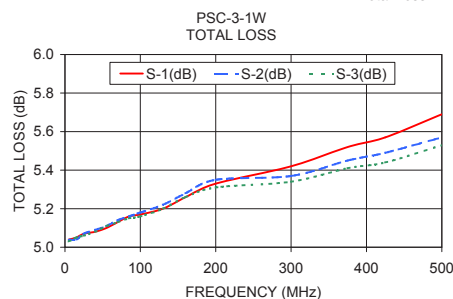
Outline Dimensions (inch/mm)

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	

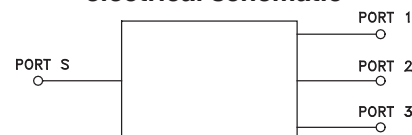
Typical Performance Data

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 + 4.8 dB splitter loss.



electrical schematic



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-Circuit's applicable established test performance criteria and measurement instructions.
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