

Power Splitter/Combiner

PSC-3-1W-75+

3 Way-0° 75Ω 0.5 to 400 MHz

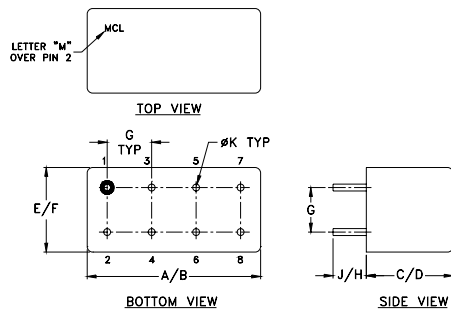
Maximum Ratings

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

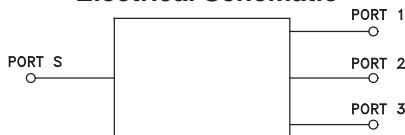
Outline Drawing



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

Electrical Schematic

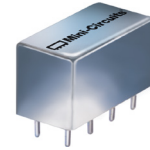


Features

- low insertion loss, 0.7 dB typ.
- high isolation, 25 dB typ.
- rugged welded construction

Applications

- VHF/DHF
- FM & amateur radio
- federal & defense communication



CASE STYLE: A01

Units marked as PSC-3-1-75+

+RoHS Compliant

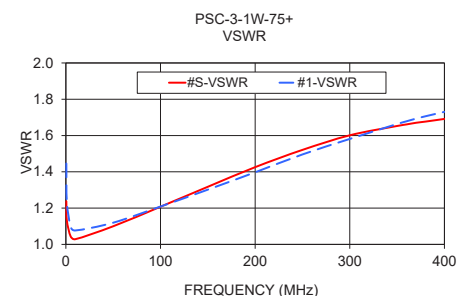
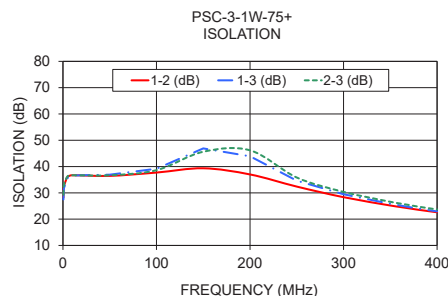
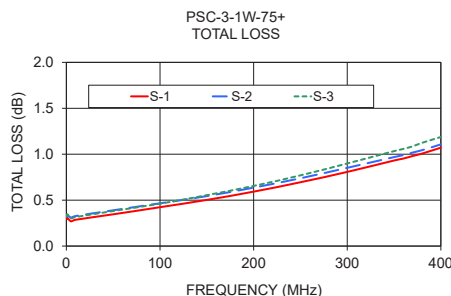
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		0.5		400	MHz
Insertion Loss Above 4.8 dB	0.5-5	—	0.3	0.6	dB
	5-200	—	0.5	0.9	
	200-400	—	1.0	1.6	
Isolation	0.5-5	23	28	—	dB
	5-200	25	35	—	
	200-400	20	25	—	
Phase Unbalance	0.5-200	—	0.9	3	Degree
	200-400	—	1.5	4	
Amplitude Unbalance	0.5-200	—	0.1	0.25	dB
	200-400	—	0.2	0.40	
VSWR (Port S)	0.5-200	—	1.3	—	:1
	200-400	—	1.6	—	
VSWR (Port 1-3)	0.5-200	—	1.35	—	:1
	200-400	—	1.75	—	

Typical Performance Data

Freq. (MHz)	Insertion Loss (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					
0.50	0.29	0.32	0.32	0.03	28.18	27.46	29.23	0.05	1.24	1.45	1.42	1.43
1.00	0.31	0.34	0.35	0.04	32.30	31.75	32.95	0.03	1.13	1.24	1.22	1.23
5.00	0.27	0.31	0.30	0.04	36.11	35.66	36.33	0.02	1.04	1.10	1.09	1.09
10.00	0.29	0.33	0.32	0.04	36.69	36.62	36.69	0.06	1.03	1.08	1.07	1.07
50.00	0.35	0.39	0.38	0.04	36.46	36.90	36.68	0.27	1.10	1.12	1.11	1.11
100.00	0.42	0.47	0.46	0.04	37.72	39.17	38.62	0.46	1.21	1.21	1.18	1.21
150.00	0.50	0.54	0.55	0.05	39.34	46.90	45.63	0.67	1.32	1.30	1.27	1.30
200.00	0.59	0.64	0.65	0.06	37.00	43.89	46.17	0.86	1.43	1.40	1.36	1.41
250.00	0.69	0.74	0.77	0.07	32.38	34.63	35.82	1.03	1.52	1.50	1.46	1.52
300.00	0.81	0.85	0.90	0.09	28.35	29.47	30.37	1.17	1.60	1.58	1.54	1.63
350.00	0.93	0.97	1.03	0.10	25.19	25.82	26.59	1.34	1.65	1.66	1.63	1.73
360.00	0.95	0.99	1.06	0.11	24.64	25.20	25.96	1.37	1.66	1.68	1.64	1.75
370.00	0.98	1.02	1.09	0.11	24.11	24.61	25.37	1.35	1.67	1.69	1.66	1.77
380.00	1.01	1.04	1.12	0.12	23.56	24.01	24.75	1.36	1.68	1.71	1.67	1.79
400.00	1.07	1.11	1.19	0.12	22.61	22.94	23.67	1.40	1.69	1.73	1.70	1.82



Notes

- A. 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.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- C. 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

