

Power Splitter/Combiner

5 Way-0° 75Ω 1 to 300 MHz

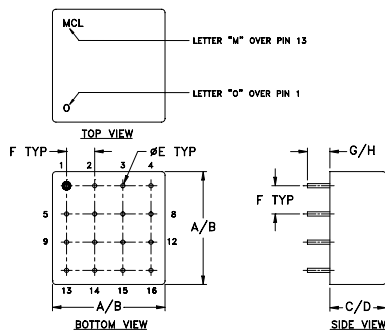
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.5W max.
Permanent damage may occur if any of these limits are exceeded.	

Pin Connections

SUM PORT	1
PORT 1	4
PORT 2	8
PORT 3	12
PORT 4	16
PORT 5	15
GROUND	2,5,7,11,13,14
CASE GROUND	2,5,7,11,13,14
NOT USED	3,6,9,10

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

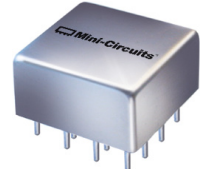
Features

- high isolation, 30 typ.
- excellent amplitude unbalance, 0.3 dB typ.
- rugged welded case

Applications

- VHF
- signal processing
- instrumentation
- radio communication

PSC-5-1-75+
PSC-5-1-75



CASE STYLE: C07

+RoHS Compliant

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

Electrical Specifications

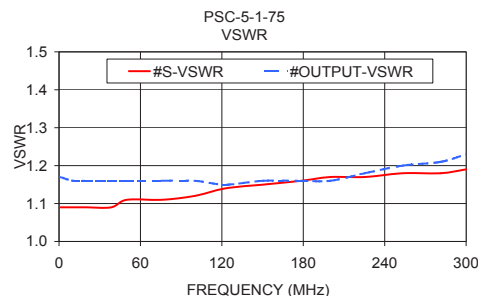
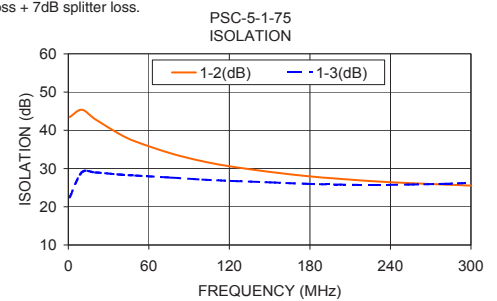
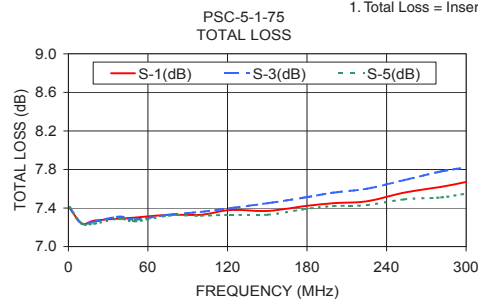
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 7.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L		M		U	
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
f _L -f _U																		
1-300	35	20	30	18	25	17	0.4	0.6	0.6	0.9	0.9	1.3	2	4	8	0.2	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)					VSWR S	VSWR OUTPUTS
	S-1	S-2	S-3	S-4	S-5		1-2	1-3	2-3	3-5	4-5		
1.00	7.40	7.42	7.40	7.41	7.41	0.02	43.47	22.47	44.90	22.10	36.42	1.09	1.17
10.00	7.24	7.24	7.24	7.26	7.24	0.02	45.39	28.95	48.20	28.76	41.61	1.09	1.16
20.00	7.27	7.26	7.26	7.26	7.24	0.03	42.90	28.98	43.39	28.90	40.15	1.09	1.16
38.40	7.29	7.31	7.31	7.31	7.29	0.02	38.98	28.42	38.22	28.40	36.70	1.09	1.16
50.00	7.30	7.28	7.28	7.28	7.26	0.04	37.09	28.16	36.08	28.05	34.94	1.11	1.16
75.80	7.33	7.33	7.33	7.31	7.32	0.02	34.03	27.65	32.76	27.41	31.98	1.11	1.16
100.00	7.33	7.36	7.36	7.36	7.32	0.04	31.90	27.11	30.52	26.76	29.91	1.12	1.16
122.50	7.38	7.40	7.40	7.38	7.33	0.07	30.46	26.74	29.03	26.22	28.45	1.14	1.15
150.50	7.37	7.45	7.45	7.43	7.33	0.08	29.11	26.37	27.60	25.63	27.00	1.15	1.16
178.50	7.42	7.54	7.51	7.49	7.39	0.15	28.00	25.99	26.43	25.11	25.82	1.16	1.16
200.00	7.45	7.57	7.56	7.49	7.42	0.15	27.36	25.83	25.73	24.78	25.13	1.17	1.16
225.30	7.47	7.65	7.60	7.55	7.43	0.22	26.73	25.72	25.08	24.54	24.42	1.17	1.18
253.30	7.56	7.74	7.69	7.66	7.49	0.25	26.21	25.80	24.49	24.36	23.75	1.18	1.20
281.30	7.62	7.84	7.78	7.69	7.51	0.33	25.80	26.02	23.98	24.34	23.22	1.18	1.21
300.00	7.67	7.91	7.82	7.75	7.55	0.36	25.54	26.27	23.67	24.38	22.87	1.19	1.23

1. Total Loss = Insertion Loss + 7dB 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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