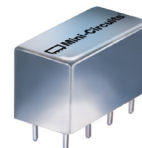


Plug-In

# Power Splitter/Combiner

PSC-3-1-75+

3 Way-0° 75Ω 1 to 200 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	6
PORT 1	1
PORT 2	2
PORT 3	5
GROUND	3,4,7,8
CASE GROUND	3,4,7,8

## Features

- low insertion loss, 0.3 dB typ.
- high isolation, 35 dB typ.
- rugged welded construction

## Applications

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

**+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	L	M	U
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
$f_L$ - $f_U$																		
1-200	35	23	35	25	35	25	0.6	1.0	0.3	0.7	0.6	1.0	2.0	3.0	4.0	0.15	0.2	0.3

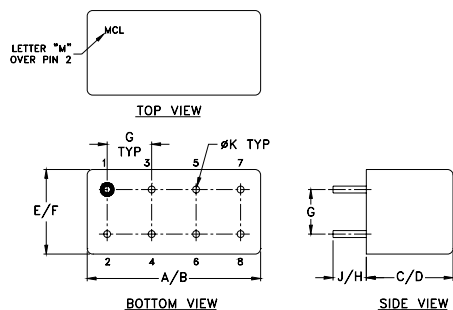
L = low range [ $f_L$  to  $10 f_L$ ] M = mid range [ $10 f_L$  to  $f_U/2$ ] U = upper range [ $f_U/2$  to  $f_U$ ]

## Typical Performance Data

Freq. (MHz)	Total Loss <sup>1</sup> (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					
1.00	5.21	5.21	5.21	0.00	34.73	34.38	33.33	0.11	1.13	1.19	1.20	1.20
2.50	5.15	5.16	5.16	0.01	37.13	36.73	35.97	0.01	1.08	1.12	1.12	1.12
4.00	5.13	5.14	5.14	0.01	38.00	37.43	36.99	0.09	1.06	1.09	1.09	1.09
8.50	5.13	5.14	5.15	0.01	38.54	37.66	37.70	0.12	1.03	1.06	1.06	1.06
17.50	5.15	5.15	5.15	0.00	38.33	37.59	37.70	0.14	1.03	1.06	1.06	1.06
40.00	5.17	5.17	5.18	0.01	38.10	37.71	37.71	0.20	1.08	1.09	1.09	1.09
62.50	5.19	5.20	5.21	0.01	38.56	38.28	38.21	0.38	1.13	1.13	1.13	1.14
85.00	5.24	5.25	5.25	0.01	39.26	39.53	39.25	0.50	1.18	1.17	1.17	1.18
110.00	5.25	5.26	5.27	0.01	40.66	41.80	41.20	0.64	1.23	1.21	1.22	1.24
128.00	5.29	5.30	5.32	0.03	41.79	44.58	43.64	0.69	1.28	1.25	1.25	1.28
152.00	5.32	5.35	5.38	0.05	42.34	51.96	49.22	0.92	1.34	1.30	1.30	1.34
170.00	5.36	5.38	5.42	0.05	41.01	53.93	56.79	0.96	1.38	1.34	1.34	1.38
182.00	5.37	5.38	5.43	0.06	39.82	48.28	51.81	1.04	1.41	1.36	1.36	1.41
194.00	5.36	5.39	5.43	0.08	38.25	44.06	46.53	1.08	1.43	1.38	1.39	1.43
200.00	5.38	5.39	5.44	0.07	37.49	42.38	44.44	1.12	1.45	1.40	1.40	1.45

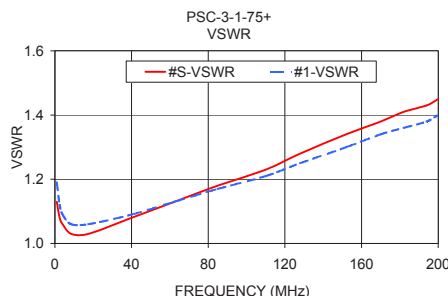
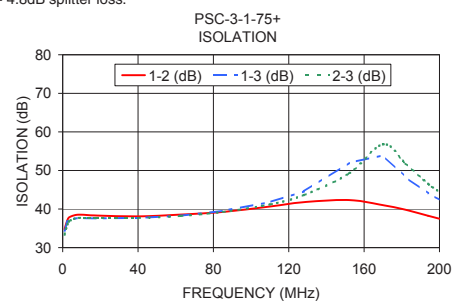
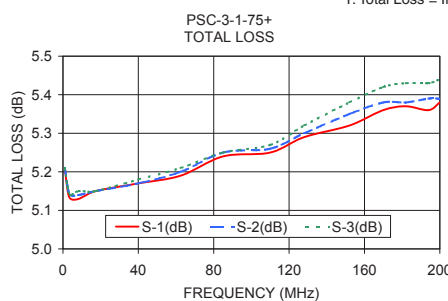
1. Total Loss = Insertion Loss + 4.8dB splitter loss.

## 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



### 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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