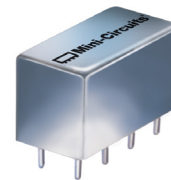


Plug-In

# Power Splitter/Combiner

PSC-4-3+

4 Way-0° 50Ω 0.25 to 250 MHz



CASE STYLE: A01

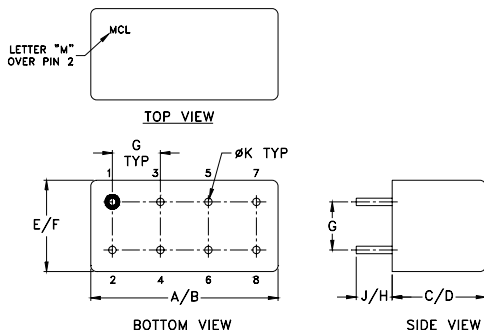
## Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.250W max.
Permanent damage may occur if any of these limits are exceeded.	

## Pin Connections

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

## 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

## Features

- low insertion loss, 0.5 dB typ.
- good isolation, 30 dB typ.
- rugged welded construction

## Applications

- UHF/VHF
- defense and federal communication
- instrumentation

**+RoHS Compliant**

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

## Electrical Specifications

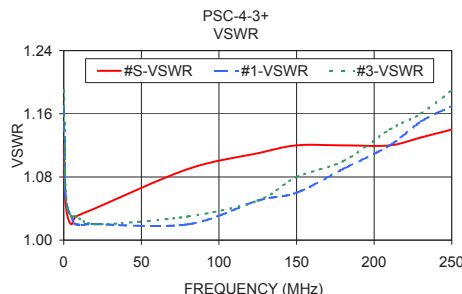
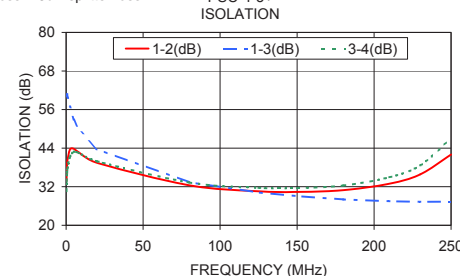
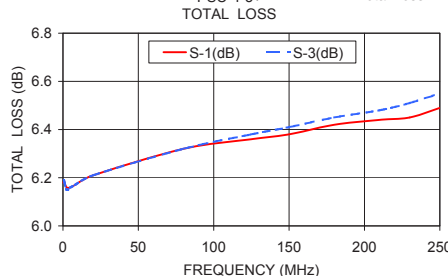
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 6.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)			
	L		M		U		L		M		U		L	M	U	L	M	U	
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	
$f_L$ - $f_U$																			
0.25-250	33	20	30	20	27	20	0.4	0.7	0.5	0.75	0.7	1.2	4	6	8	0.15	0.2	0.25	

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	VSWR	VSWR	VSWR	VSWR
	S-1	S-2	S-3	S-4		1-2	1-3	3-4		S	1	2	3	4
0.25	6.18	6.19	6.19	6.19	0.01	33.83	60.31	30.63	0.09	1.12	1.17	1.17	1.19	1.19
0.40	6.18	6.18	6.19	6.18	0.01	36.78	60.19	33.69	0.05	1.08	1.11	1.11	1.12	1.12
0.70	6.19	6.18	6.19	6.18	0.01	39.22	60.74	36.43	0.07	1.06	1.08	1.08	1.09	1.09
1.00	6.18	6.17	6.18	6.18	0.01	40.57	59.76	37.87	0.05	1.05	1.06	1.06	1.07	1.07
2.50	6.16	6.16	6.15	6.15	0.01	43.63	56.97	41.34	0.05	1.03	1.04	1.04	1.04	1.04
5.00	6.16	6.16	6.16	6.16	0.00	43.80	52.88	42.86	0.04	1.02	1.03	1.03	1.03	1.03
8.00	6.17	6.17	6.17	6.17	0.00	42.77	49.93	42.57	0.06	1.03	1.02	1.02	1.03	1.03
20.00	6.21	6.21	6.21	6.21	0.01	39.44	43.69	39.92	0.11	1.04	1.02	1.02	1.02	1.02
80.00	6.32	6.32	6.32	6.33	0.01	32.43	33.39	33.32	0.22	1.09	1.02	1.02	1.03	1.02
125.00	6.36	6.37	6.38	6.40	0.04	30.59	30.20	31.65	0.26	1.11	1.05	1.04	1.05	1.05
150.00	6.38	6.40	6.41	6.44	0.05	30.38	29.07	31.59	0.40	1.12	1.06	1.06	1.08	1.07
180.00	6.42	6.44	6.45	6.48	0.06	30.94	28.05	32.39	0.35	1.12	1.09	1.09	1.10	1.10
210.00	6.44	6.46	6.48	6.53	0.08	32.95	27.48	34.95	0.39	1.12	1.12	1.12	1.14	1.13
230.00	6.45	6.49	6.51	6.56	0.11	35.85	27.32	38.65	0.37	1.13	1.15	1.14	1.16	1.16
250.00	6.49	6.52	6.55	6.59	0.10	42.02	27.34	47.12	0.27	1.14	1.17	1.16	1.19	1.18

1. Total Loss = Insertion Loss + 6dB 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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