

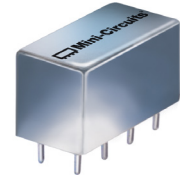
Plug-In

# NON-CATALOG

# Power Splitter/Combiner

PSC-4-5+

4 Way-0° 50Ω 1 to 800 MHz



CASE STYLE: A01

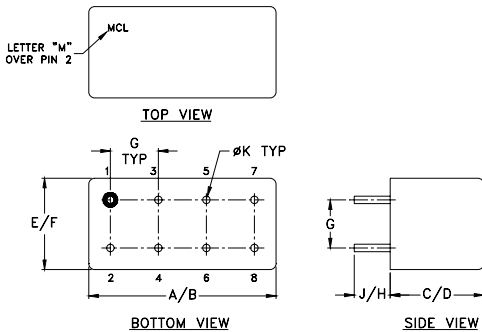
### Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	0.5W 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

- wideband, 1 to 800 MHz typ.
- low insertion loss, 0.6 dB typ.
- good isolation, 24 dB typ.
- rugged welded construction

### Applications

- UHF/VHF
- communication systems
- instrumentation

+RoHS Compliant

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

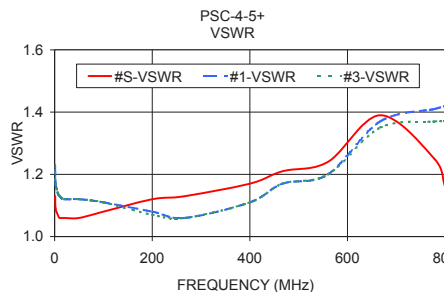
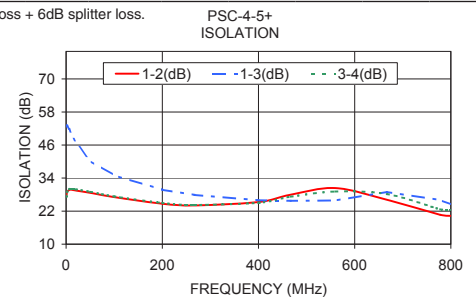
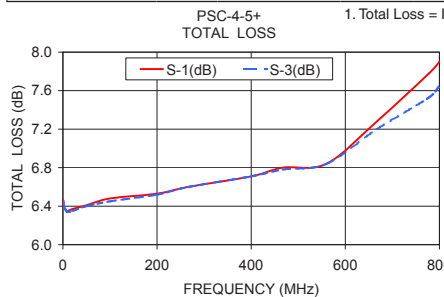
### Electrical Specifications

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.	
$f_L$ - $f_U$																			
1-800	29	20	24	18	25	17	0.4	0.8	0.6	1.5	1.3	2.5	1	4	5	0.2	0.5	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 <sup>1</sup> (dB)				Amp. Unbal. (dB)	Isolation (dB)			VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4		1-2	1-3	3-4					
1.00	6.46	6.44	6.45	6.46	0.02	27.74	52.72	27.19	1.13	1.22	1.22	1.23	1.23
2.00	6.40	6.38	6.39	6.39	0.02	28.98	53.04	28.83	1.09	1.17	1.17	1.17	1.17
6.39	6.36	6.35	6.36	6.36	0.04	29.67	51.87	29.94	1.07	1.14	1.14	1.14	1.14
10.00	6.35	6.34	6.34	6.34	0.01	29.78	50.48	30.10	1.06	1.13	1.13	1.13	1.13
20.00	6.37	6.36	6.35	6.35	0.02	29.50	47.13	29.91	1.06	1.12	1.13	1.12	1.12
50.00	6.41	6.41	6.40	6.40	0.01	28.65	40.22	29.02	1.06	1.12	1.12	1.12	1.12
100.00	6.48	6.45	6.45	6.46	0.03	27.08	35.01	27.31	1.08	1.11	1.11	1.11	1.11
200.00	6.53	6.52	6.52	6.54	0.02	24.70	29.75	24.96	1.12	1.08	1.08	1.07	1.08
267.00	6.60	6.61	6.60	6.62	0.02	24.06	27.88	24.25	1.13	1.06	1.07	1.06	1.07
400.00	6.71	6.73	6.71	6.81	0.10	25.29	25.96	25.05	1.17	1.11	1.12	1.11	1.11
467.00	6.80	6.83	6.78	6.94	0.16	27.97	25.73	27.25	1.21	1.17	1.18	1.17	1.16
560.00	6.84	6.89	6.84	6.95	0.11	30.36	25.86	29.12	1.24	1.20	1.21	1.20	1.20
667.00	7.28	7.35	7.20	7.32	0.15	26.13	28.98	28.19	1.39	1.37	1.38	1.35	1.35
778.00	7.78	7.85	7.53	7.56	0.32	20.67	26.01	22.67	1.25	1.41	1.42	1.37	1.38
800.00	7.90	8.00	7.65	7.64	0.36	20.29	24.44	22.44	1.16	1.42	1.42	1.37	1.38



### 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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