

Plug-In

# Power Splitter/Combiner

PSC-4-1+

4 Way-0° 50Ω 0.1 to 200 MHz



Generic photo used for illustration purposes only

CASE STYLE: A01

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

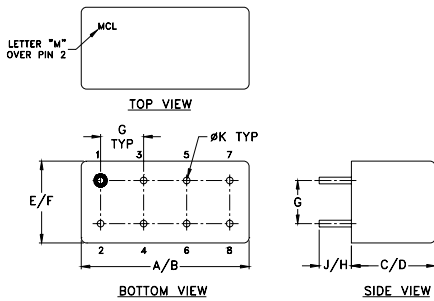
## Maximum Ratings

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

- HF/VHF
- amateur FM radio
- federal and defense communication

## Electrical Specifications

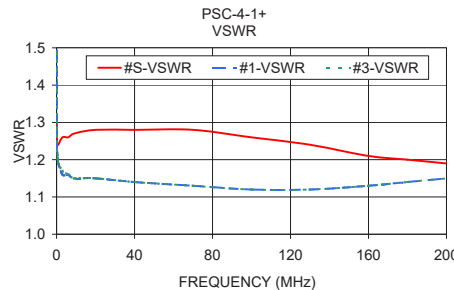
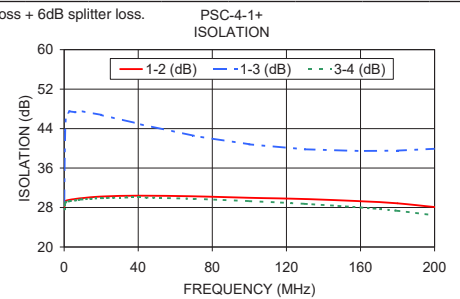
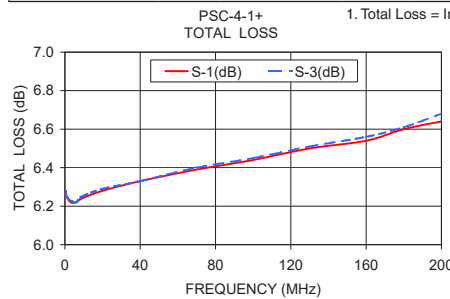
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 6.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)			
	L		M		U		L		M		U		L	M	U	L	M	U	
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	
$f_L$ - $f_U$	33	20	30	20	27	20	0.4	0.6*	0.5	0.75	0.7	1.0	4	6	8	0.15*	0.2	0.25	
0.1-200																			

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  $f_U$ ]

\* Adjacent ports, 25°C

## 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
0.10	6.27	6.28	6.28	6.27	0.01	28.07	29.19	27.60	0.38	1.32	1.53	1.52	1.53	1.53
0.30	6.26	6.26	6.26	6.27	0.01	29.01	38.45	28.71	0.17	1.24	1.23	1.23	1.23	1.23
0.60	6.26	6.27	6.27	6.27	0.01	29.23	43.79	28.91	0.11	1.24	1.20	1.19	1.20	1.19
0.90	6.25	6.26	6.25	6.25	0.01	29.37	46.20	29.10	0.10	1.24	1.19	1.18	1.19	1.18
3.00	6.22	6.22	6.23	6.23	0.01	29.57	47.50	29.30	0.06	1.26	1.16	1.16	1.17	1.16
6.00	6.22	6.23	6.22	6.24	0.02	29.73	47.30	29.45	0.10	1.26	1.16	1.15	1.16	1.15
9.00	6.24	6.23	6.25	6.24	0.01	29.88	47.57	29.61	0.06	1.27	1.15	1.15	1.15	1.15
20.00	6.28	6.29	6.29	6.30	0.02	30.22	46.77	29.89	0.12	1.28	1.15	1.14	1.15	1.14
40.00	6.33	6.35	6.33	6.35	0.02	30.40	44.99	30.04	0.12	1.28	1.14	1.14	1.14	1.14
70.00	6.39	6.40	6.40	6.42	0.03	30.27	42.53	29.75	0.21	1.28	1.13	1.13	1.13	1.13
100.00	6.44	6.46	6.45	6.48	0.04	29.97	40.81	29.29	0.31	1.26	1.12	1.12	1.12	1.12
130.00	6.50	6.52	6.51	6.57	0.07	29.72	39.80	28.74	0.25	1.24	1.12	1.12	1.12	1.12
160.00	6.54	6.60	6.56	6.64	0.10	29.28	39.45	28.00	0.25	1.21	1.13	1.13	1.13	1.13
180.00	6.60	6.65	6.61	6.71	0.11	28.85	39.53	27.34	0.34	1.20	1.14	1.14	1.14	1.14
200.00	6.64	6.71	6.68	6.79	0.14	28.10	39.92	26.42	0.33	1.19	1.15	1.15	1.15	1.15



## 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.
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