

Power Splitter/Combiner

4 Way-0° 50Ω 0.1 to 200 MHz

PSC-4-1+



Generic photo used for illustration purposes only

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

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

+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	
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
f_L - f_U																		
0.1-200	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

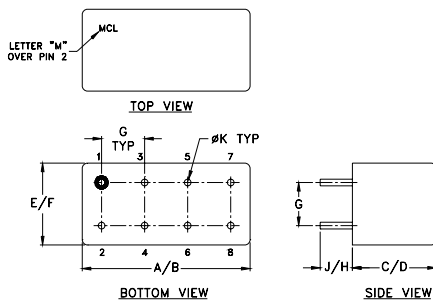
L = low range [f_L to 10 f_L] M = mid range [10 f_L to $f_U/2$] U = upper range [$f_U/2$ to f_U]

* Adjacent ports, 25°C

Typical Performance Data

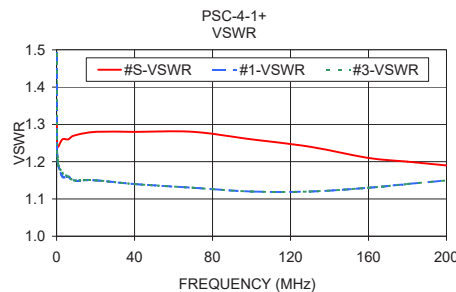
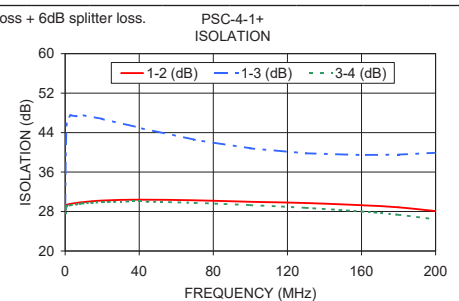
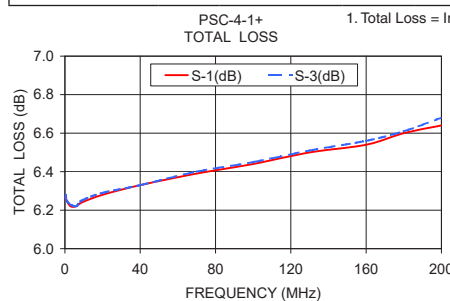
Freq. (MHz)	Total Loss ¹ (dB)				Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR				
	S-1	S-2	S-3	S-4		1-2	1-3	3-4		S	1	2	3	4
0.10	6.27	6.28	6.28	6.27	0.01	28.07	29.19	27.60	0.38	1.32	1.53	1.52	1.53	1.53
0.30	6.26	6.26	6.26	6.27	0.01	29.01	38.45	28.71	0.17	1.24	1.23	1.23	1.23	1.23
0.60	6.26	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

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		
.200	.20	.14	.031		
5.08	5.08	3.56	0.79		
				wt	grams
					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.
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