

Power Splitter/Combiner

PSC-2-2+

2 Way-0° 50Ω 0.004 to 60 MHz

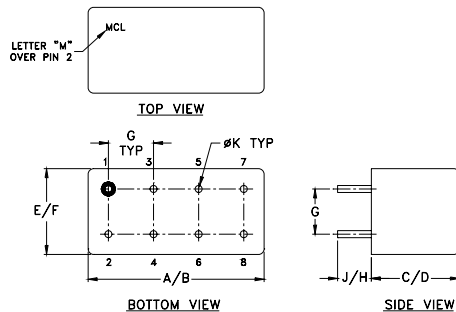
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.
Permanent damage may occur if any of these limits are exceeded.	

Pin Connections

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

Outline Drawing



Outline Dimensions (inch)

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
- ham radio
- instrumentation



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

Electrical Specifications

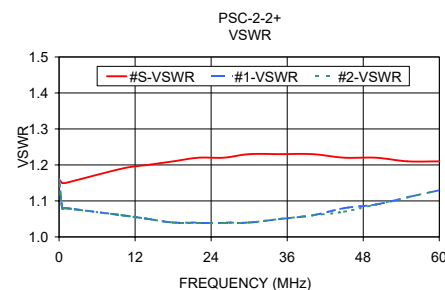
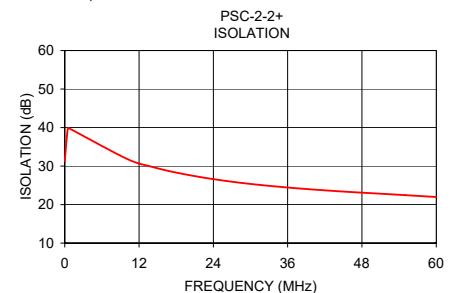
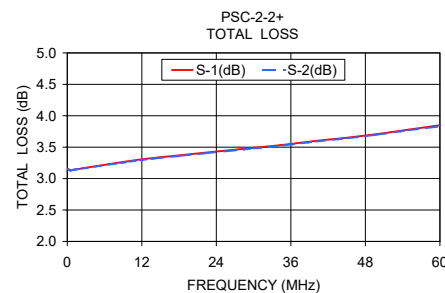
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L		M		U	
	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
0.004-60	27	20	30	20	27	20	0.3	0.6	0.3	0.6	0.6	1.0	2.0	3.0	4.0	0.15	0.25	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]At low range frequency band, [f_L to $10 f_L$], linearly derate maximum input power by 13 dB.

Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
0.01	3.16	3.16	0.00	31.34	0.01	1.16	1.16	1.16
0.50	3.13	3.13	0.00	39.80	0.00	1.15	1.08	1.08
1.00	3.14	3.14	0.00	39.56	0.00	1.15	1.08	1.08
10.00	3.28	3.27	0.00	31.90	0.01	1.19	1.06	1.06
14.00	3.33	3.32	0.00	29.85	0.01	1.20	1.05	1.05
18.00	3.37	3.36	0.01	28.31	0.03	1.21	1.04	1.04
22.00	3.41	3.40	0.01	27.11	0.03	1.22	1.04	1.04
26.00	3.45	3.44	0.01	26.15	0.03	1.22	1.04	1.04
30.00	3.49	3.48	0.01	25.36	0.04	1.23	1.04	1.04
35.00	3.54	3.53	0.01	24.57	0.04	1.23	1.05	1.05
40.00	3.60	3.59	0.01	23.92	0.04	1.23	1.06	1.06
45.00	3.65	3.64	0.01	23.38	0.05	1.22	1.08	1.07
50.00	3.71	3.70	0.01	22.91	0.05	1.22	1.09	1.09
55.00	3.78	3.77	0.01	22.46	0.07	1.21	1.11	1.11
60.00	3.85	3.83	0.01	21.98	0.07	1.21	1.13	1.13

1. Total Loss = Insertion Loss + 3dB 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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