

Power Splitter/Combiner

PSC-12-1+

12 Way-0° 50Ω 1 to 200 MHz



CASE STYLE: E10

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	0.87W max.
Permanent damage may occur if any of these limits are exceeded.	

Pin Connections

SUM PORT	5
PORT 1	7
PORT 2	8
PORT 3	1
PORT 4	2
PORT 5	31
PORT 6	32
PORT 7	25
PORT 8	26
PORT 9	22
PORT 10	30
PORT 11	19
PORT 12	27
GROUND	all other pins
CASE GROUND	3,6

Features

- low insertion loss, 0.8 dB typ.
- good isolation, 27 dB typ.
- rugged welded case

Applications

- HF/VHF
- communication systems
- signal processing

+RoHS Compliant

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

Electrical Specifications

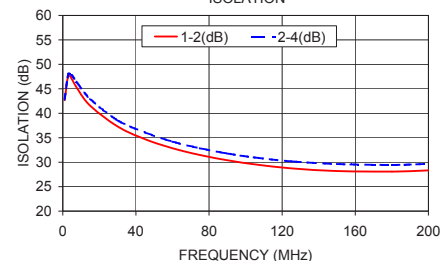
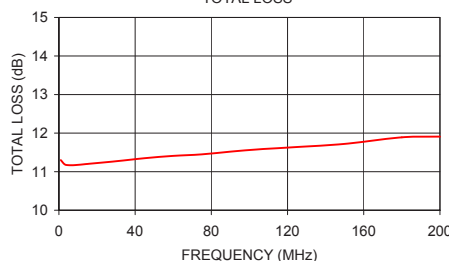
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 10.8 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
f_L - f_U	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
1-200	35	30	27	20	21	18	0.5	0.8	0.8	1.2	1.0	1.4	4	8	16	0.2	0.4	0.7

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]

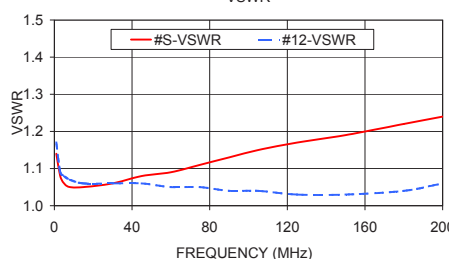
Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)	Amplitude Unbalance (dB)	Isolation (dB)		Phase Unbalance (deg.)	VSWR S	VSWR 12
			1-2	2-4			
1.00	11.30	0.16	42.68	42.83	0.40	1.14	1.17
3.00	11.19	0.14	47.69	47.94	0.18	1.08	1.09
5.00	11.17	0.14	46.95	47.73	0.14	1.06	1.08
8.00	11.17	0.13	45.01	46.14	0.23	1.05	1.07
15.00	11.20	0.14	41.53	42.92	0.40	1.05	1.06
30.00	11.27	0.13	37.29	38.55	0.67	1.06	1.06
45.00	11.35	0.14	34.70	36.08	0.97	1.08	1.06
60.00	11.41	0.14	32.86	34.20	1.42	1.09	1.05
75.00	11.45	0.14	31.48	32.85	1.65	1.11	1.05
90.00	11.52	0.16	30.40	31.78	1.96	1.13	1.04
105.00	11.58	0.14	29.57	30.96	2.21	1.15	1.04
125.00	11.64	0.15	28.75	30.17	2.68	1.17	1.03
150.00	11.72	0.14	28.20	29.63	3.19	1.19	1.03
180.00	11.89	0.18	28.08	29.45	3.99	1.22	1.04
200.00	11.91	0.21	28.33	29.66	4.45	1.24	1.06

PSC-12-1+ TOTAL LOSS 1. Total Loss = Insertion Loss + 10.8dB splitter loss.



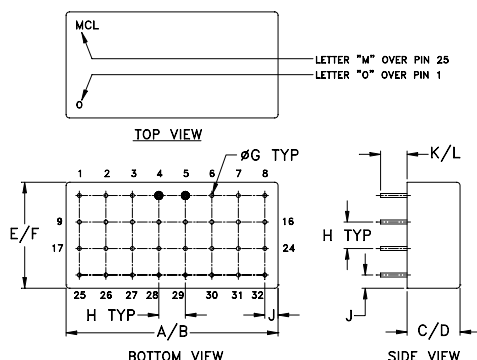
PSC-12-1+ VSWR



electrical schematic



Outline Drawing



Outline Dimensions (inch mm)

A	B	C	D	E	F	G
1.580	1.620	.380	.410	.770	.810	.030
40.13	41.15	9.65	10.41	19.56	20.57	0.76
H	J	K	L			wt
.200	.10	.20	.14			grams
5.08	2.54	5.08	3.56			23.0

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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