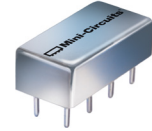


Plug-In

Power Splitter/Combiner

PMT-1+

2 Way-0°/180° 50Ω 5 to 200 MHz



CASE STYLE: A04

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	2
PORT 2	3
PORT J	4
GROUND	5,6,7,8
CASE GROUND	5,6,7,8

Features

- low insertion loss, 0.9 dB typ.
- good isolation, 24 dB typ.
- excellent amplitude unbalance, 0.2 dB typ.
- good VSWR, 1.2:1 typ.

Applications

- VHF
- communications systems
- signal processing

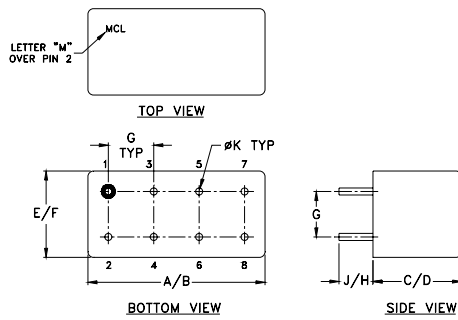
+RoHS Compliant
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 3.0 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.
5-200	22 20	24 20	24 18	0.8 1.0	0.9 1.1	1.0 1.5	2	4	8	0.1	0.2	0.5

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]

Outline Drawing



Outline Dimensions (inch/mm)

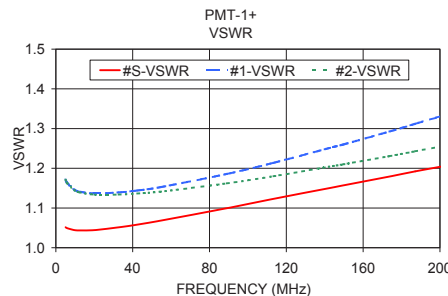
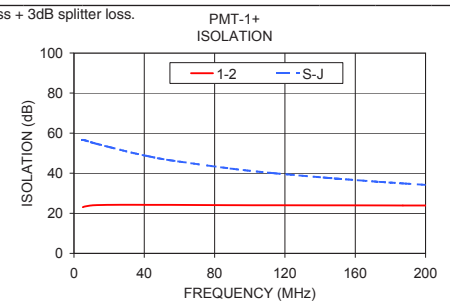
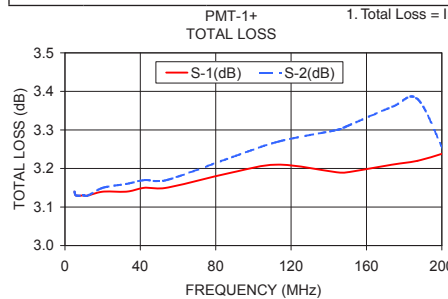
A	B	C	D	E	F
.770	.800	.200	.210	.370	.400
19.56	20.32	5.08	5.33	9.40	10.16

G	H	J	K	wt
.200	.20	.14	.031	grams
5.08	5.08	3.56	0.79	3.7

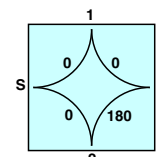
Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)	Amplitude Unbal. (dB)	Insertion Loss (dB)	Amplitude Unbal. (dB)	Isolation (dB)	Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	
	S-1 S-2	(S-1)-(S-2)	J-1 J-2	(J-1)-(J-2)	1-2 S-J	(S-1)-(S-2) (J-1)-(J-2)				
5.03	3.14 3.14	0.00	3.76 3.77	0.01	23.04 56.65	-0.11	179.86	1.05	1.17	1.17
5.83	3.13 3.13	0.00	3.74 3.75	0.01	23.32 56.54	-0.07	179.79	1.05	1.16	1.16
9.62	3.13 3.13	0.00	3.69 3.69	0.01	23.89 55.51	-0.22	179.73	1.04	1.15	1.15
12.25	3.13 3.13	0.00	3.67 3.69	0.00	24.04 54.83	-0.25	179.66	1.04	1.14	1.14
20.21	3.14 3.15	0.01	3.67 3.69	0.00	24.21 53.04	-0.42	179.44	1.04	1.14	1.13
32.73	3.14 3.16	0.02	3.69 3.69	0.00	24.26 50.31	-0.70	179.16	1.05	1.14	1.13
42.43	3.15 3.17	0.02	3.70 3.70	0.01	24.22 48.47	-0.87	178.90	1.06	1.14	1.14
54.00	3.15 3.17	0.02	3.72 3.71	0.01	24.20 46.56	-1.08	178.57	1.07	1.15	1.14
89.10	3.19 3.23	0.04	3.82 3.77	0.05	24.04 42.34	-1.75	177.70	1.10	1.19	1.16
113.40	3.21 3.27	0.06	3.88 3.80	0.08	24.03 40.04	-2.23	177.05	1.12	1.21	1.18
144.31	3.19 3.30	0.11	3.93 3.80	0.13	23.97 37.67	-2.78	176.34	1.15	1.25	1.21
149.77	3.19 3.31	0.12	3.95 3.80	0.14	23.97 37.29	-2.83	176.21	1.16	1.26	1.21
173.72	3.21 3.36	0.15	4.03 3.82	0.21	23.93 35.71	-3.21	175.66	1.18	1.29	1.23
187.10	3.22 3.38	0.17	4.07 3.84	0.24	23.89 34.92	-3.44	175.34	1.19	1.31	1.24
201.51	3.24 3.24	0.18	4.12 3.85	0.27	23.90 34.11	-3.73	174.88	1.21	1.33	1.26

1. Total Loss = Insertion Loss + 3dB splitter loss.



electrical schematic



- S-J ports, isolation 40 typical
- Inphase ports, S-1 and S-2 insertion loss 0.2 dB typical
- Amplitude unbalance defined by input S or J ports to output 1 and 2

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.
- The parts covered by this specification document are subject to Mini-Circuit's standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

