

Plug-In Power Splitter/Combiner

PMT-1+

2 Way-0°/180° 50Ω 5 to 200 MHz



Generic photo used for illustration purposes only
CASE STYLE: A04

+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	0.125W 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

Electrical Specifications

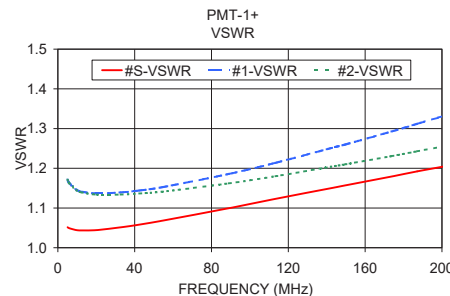
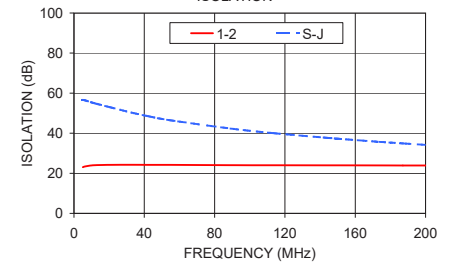
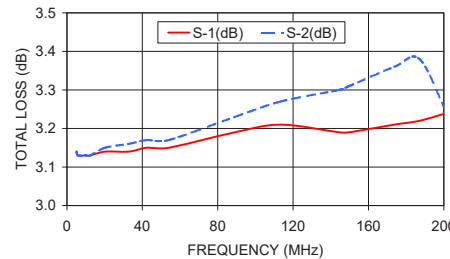
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
f _L -f _U																		
5-200	22	20	24	20	24	18	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]

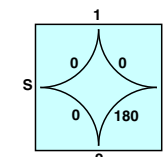
Typical Performance Data

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.

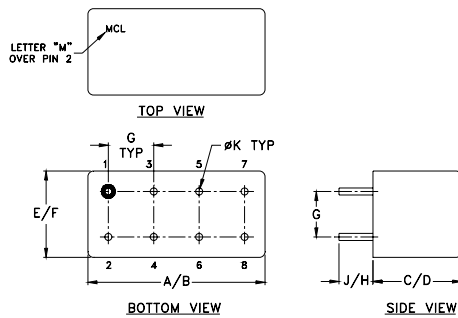


electrical schematic



- 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

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	

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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