

Non-Catalog Model

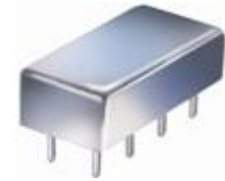
Power Splitter/Combiner

2 Way-0/180°

PMT-1-75

Important Note

This is a non-catalog model and can be manufactured on specific request.
Pricing and delivery information can be supplied upon request.



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CASE STYLE : A04

ELECTRICAL SPECIFICATIONS 75Ω @ +25°C				
Parameter		Min.	Typ.	Max. Units
Frequency		5		200 MHz
Isolation	5 - 50 MHz	18	22	dB
	50 - 100 MHz	18	22	dB
	100 - 200 MHz	18	22	dB
Insertion Loss Above 3.0 dB	5 - 50 MHz		1.00	1.30 dB
	50 - 100 MHz		1.00	1.40 dB
	100 - 200 MHz		1.00	1.50 dB
Phase Unbalance	5 - 50 MHz			2.000 deg.
	50 - 100 MHz			4.000 deg.
	100 - 200 MHz			8.000 deg.
Amplitude Unbalance	5 - 50 MHz			0.100 dB
	50 - 100 MHz			0.200 dB
	100 - 200 MHz			0.500 dB

Notes: Matched power rating: 1 Watt.

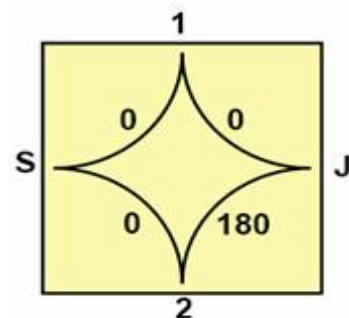
Internal load dissipation: 0.125 Watt.

Denotes 75 Ohm model, for coax connector models 75 Ohm BNC connectors are standard.

MAXIMUM RATINGS	
Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C

PIN CONNECTIONS	
SUM PORT	1
PORT 1	2
PORT 2	3
PORT J	4
GND EXT	5, 6, 7, 8
CASE GND	5, 6, 7, 8

Functional Diagram



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Typical Performance Data

FREQUENCY (MHz)	TOTAL LOSS ¹				AMPLITUDE UNBALANCE		ISOLATION		PHASE UNBALANCE		FREQUENCY (MHz)	VSWR		
	(dB)				(dB)		(dB)		(deg.)			(:1)		
	S-1	S-2	J-1	J-2	(S1)-(S2)	(J1)-(J2)	1-2	S-J	(S1)-(S2)	(J1)-(J2)		S	1	2
5.00	3.20	3.20	4.15	4.15	0.00	0.00	21.37	58.57	0.09	179.87	5.00	1.06	1.22	1.22
10.00	3.19	3.19	4.03	4.03	0.00	0.00	22.20	52.38	0.21	179.76	10.00	1.06	1.19	1.14
20.00	3.19	3.19	4.00	4.00	0.00	0.00	22.54	46.33	0.38	179.50	20.00	1.06	1.17	1.11
27.50	3.20	3.20	4.00	4.00	0.00	0.00	22.63	43.29	0.62	179.34	27.50	1.07	1.17	1.10
44.00	3.20	3.21	4.02	4.02	0.01	0.00	22.57	39.73	0.89	178.90	44.00	1.09	1.17	1.11
50.00	3.21	3.22	4.03	4.04	0.01	0.01	22.55	38.61	0.98	178.74	50.00	1.10	1.18	1.12
66.50	3.20	3.23	4.04	4.05	0.03	0.01	22.54	36.34	1.26	178.35	66.50	1.13	1.18	1.13
88.50	3.21	3.25	4.07	4.07	0.04	0.00	22.52	33.84	1.68	177.84	88.50	1.17	1.19	1.15
94.00	3.21	3.26	4.07	4.08	0.05	0.01	22.48	33.22	1.80	177.73	94.00	1.18	1.20	1.16
100.00	3.22	3.26	4.07	4.08	0.04	0.01	22.46	32.82	1.92	177.54	100.00	1.19	1.20	1.16
122.00	3.23	3.31	4.11	4.11	0.08	0.00	22.51	31.17	2.34	177.04	122.00	1.23	1.21	1.19
133.00	3.24	3.32	4.11	4.13	0.08	0.02	22.44	30.45	2.56	176.75	133.00	1.25	1.22	1.20
150.00	3.25	3.36	4.13	4.14	0.11	0.01	22.42	29.38	2.79	176.41	150.00	1.28	1.23	1.22
177.50	3.25	3.39	4.14	4.14	0.14	0.00	22.42	28.04	3.28	175.78	177.50	1.34	1.24	1.25
200.00	3.26	3.45	4.16	4.16	0.19	0.00	22.40	27.16	3.72	175.35	200.00	1.38	1.26	1.27

¹Total Loss = Insertion Loss + 3dB Splitter Loss



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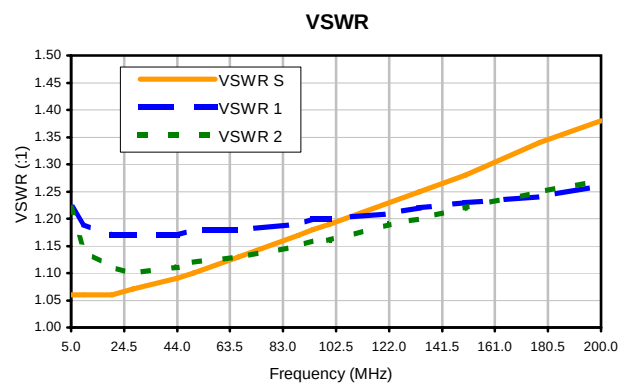
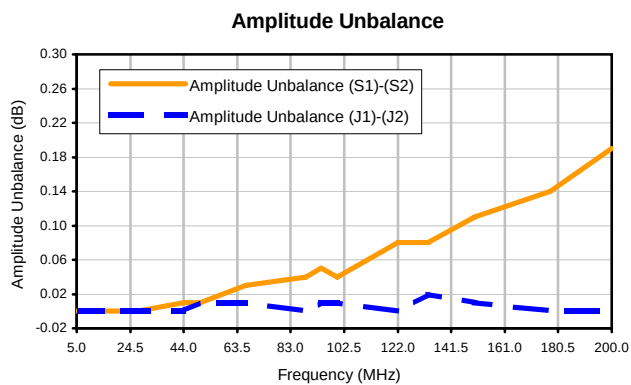
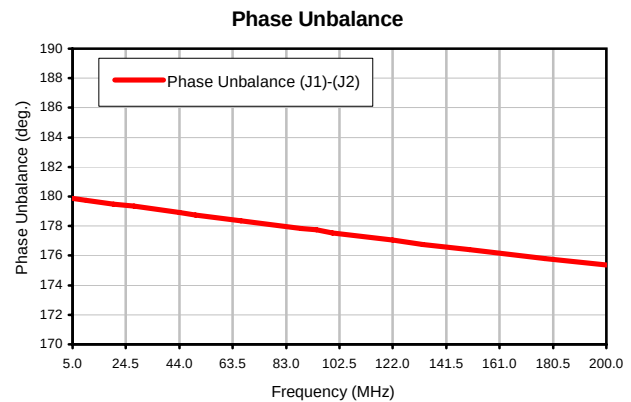
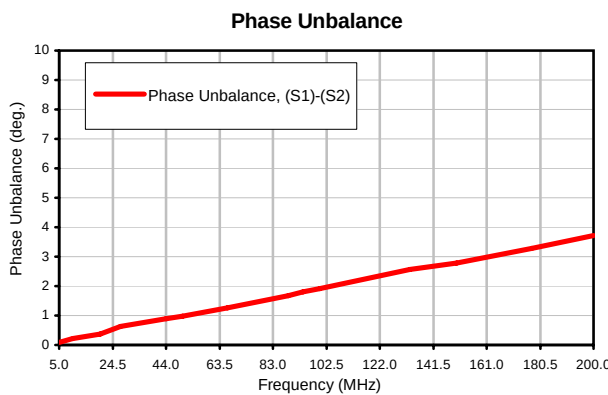
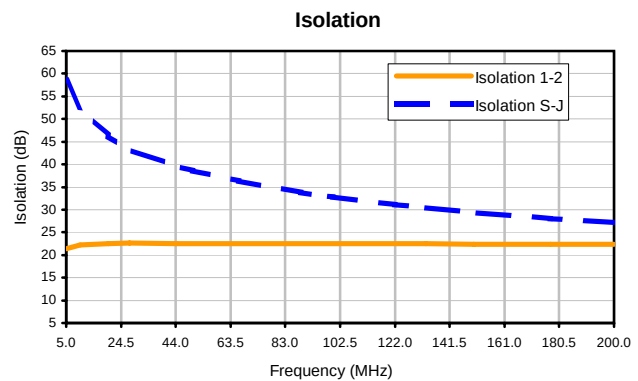
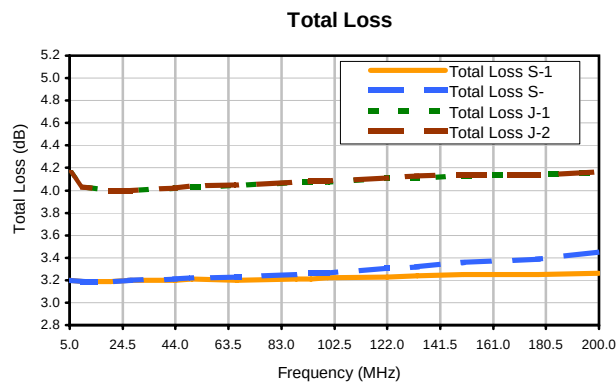
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Typical Performance Curves



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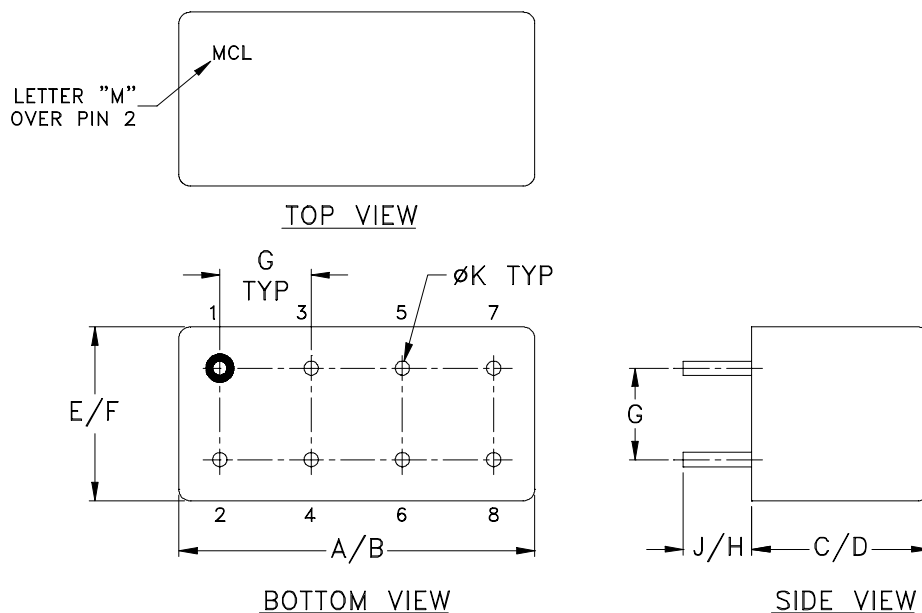
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A01
A04
A05
A06

Outline Dimensions



CASE#	A	B	C	D	E	F	G	H	J	K	WT, GRAM
A01	.770 (19.56)	.800 (20.32)	.385 (9.78)	.400 (10.16)	.370 (9.40)	.400 (10.16)	.200 (5.08)	.20 (5.08)	.14 (3.56)	.031 (.79)	5.2
A04			.200 (5.08)	.210 (5.33)							3.7
A05			.240 (6.10)	.250 (6.35)							3.7
A06			.285 (7.24)	.310 (7.87)							5.2

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .03$; 3 Pl. $\pm .015$

Notes:

- Header material: C.R.S.
Pin material: #52 alloy.
Cover material: Cupro-Nickel.
- Pin finish: Electro Tin-Silver.
- Insulated spacer available. Request P/N B14-045-01.
- Tolerance on pin diameter $\pm .005$ inch.
- Glass meniscus 0.015 inch max.
- Blue bead indicates Pin 1. Pin numbers do not appear on unit, for reference only.

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All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Thermal Shock	-55° to 100°C, 100 cycles	MIL-STD-202, Method 107, Condition A-3, except +100°C
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	50g, 11 ms, 1/2-sine, 18 shocks: 3 each direction, each of 3 axes	MIL-STD-202, Method 213, Condition A
Moisture Resistance	10 cycles, 24 hours per cycle	MIL-STD-202, Method 106, Condition A, except 50°C and end point electrical test done within 12 hours
Solderability	10X Magnification	J-STD-002, 95% Coverage
Resistance to Solder Heat	260°C for 10 seconds	MIL-STD-202, Method 210, Condition B
Marking Resistance to Solvents	Isopropyl alcohol + mineral spirits at 25°C; terpene defluxer at 25°C; distilled water + proylene glycol monomethyl ether + monoethanolamine at 63°C to 70°C	MIL-STD-202, Method 215
Terminal Strength	4 1/2 Pound Pull	MIL-STD-202, Method 211, Condition A



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Specification	Test/Inspection Condition	Reference/Spec
Gross Leak	125°C Bubble Test	MIL-STD-202, Method 112, Condition D
Barometric Pressure	100,000 Feet	MIL-STD-202, Method 105, Condition D