

Non-Catalog Model

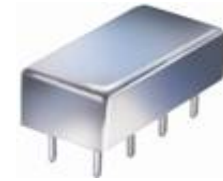
Power Splitter/Combiner

PSC-2-1W-75

2 Way-0°

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 : A06

ELECTRICAL SPECIFICATIONS 75Ω @ +25°C				
Parameter		Min.	Typ.	Max. Units
Frequency		30		600 MHz
Isolation	30 - 300 MHz	22	30	dB
	300 - 600 MHz	20	30	dB
Insertion Loss Above 3.0 dB	30 - 300 MHz		0.40	0.80 dB
	300 - 600 MHz		0.60	1.20 dB
Phase Unbalance	30 - 300 MHz			2.000 deg.
	300 - 600 MHz			4.000 deg.
Amplitude Unbalance	30 - 300 MHz			0.200 dB
	300 - 600 MHz			0.300 dB
VSWR SUM Port	30 - 300 MHz		1.10	(:1)
	300 - 600 MHz		1.15	(:1)
VSWR OUTPUTS Port	30 - 300 MHz		1.10	(:1)
	300 - 600 MHz		1.15	(:1)

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	5
PORT 2	6
GND EXT	2, 3, 4, 7, 8
CASE GND	2, 3, 4, 7, 8

Functional Diagram



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Typical Performance Data

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	ISOLATION (dB) 1-2	PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1)		
	S-1	S-2					S	1	2
30.0	3.34	3.35	0.01	27.01	0.12	30.0	1.10	1.17	1.17
35.0	3.32	3.33	0.01	27.47	0.03	35.0	1.09	1.15	1.15
40.0	3.34	3.33	0.01	27.86	0.03	40.0	1.08	1.14	1.14
45.0	3.33	3.34	0.00	28.20	0.20	45.0	1.08	1.13	1.13
50.0	3.32	3.31	0.01	28.43	0.06	50.0	1.07	1.12	1.12
55.0	3.33	3.33	0.00	28.67	0.18	55.0	1.07	1.11	1.12
60.0	3.33	3.34	0.01	28.81	0.01	60.0	1.07	1.11	1.11
65.0	3.31	3.32	0.02	28.92	0.27	65.0	1.07	1.10	1.11
70.0	3.32	3.32	0.00	29.11	0.22	70.0	1.07	1.10	1.10
75.0	3.32	3.32	0.00	29.25	0.18	75.0	1.07	1.10	1.10
80.0	3.32	3.33	0.01	29.36	0.28	80.0	1.07	1.09	1.10
85.0	3.32	3.31	0.01	29.45	0.21	85.0	1.07	1.09	1.10
90.0	3.31	3.29	0.02	29.55	0.16	90.0	1.07	1.09	1.09
95.0	3.31	3.31	0.00	29.67	0.30	95.0	1.06	1.09	1.09
100.0	3.29	3.31	0.01	29.71	0.31	100.0	1.06	1.09	1.09
120.0	3.34	3.34	0.00	30.01	0.35	120.0	1.06	1.08	1.08
140.0	3.32	3.35	0.02	30.34	0.41	140.0	1.07	1.07	1.08
160.0	3.33	3.32	0.00	30.61	0.53	160.0	1.08	1.07	1.07
180.0	3.32	3.33	0.01	30.90	0.39	180.0	1.08	1.07	1.07
200.0	3.33	3.33	0.00	31.32	0.53	200.0	1.07	1.07	1.07
220.0	3.34	3.36	0.01	31.59	0.58	220.0	1.08	1.07	1.07
240.0	3.36	3.37	0.01	32.00	0.70	240.0	1.10	1.07	1.07
260.0	3.35	3.36	0.01	32.32	0.80	260.0	1.11	1.07	1.07
280.0	3.37	3.37	0.00	32.60	0.83	280.0	1.10	1.07	1.07
300.0	3.39	3.40	0.01	32.91	0.90	300.0	1.10	1.07	1.06
320.0	3.39	3.40	0.01	32.95	0.97	320.0	1.12	1.08	1.06
340.0	3.37	3.38	0.01	32.96	0.96	340.0	1.13	1.08	1.06
360.0	3.40	3.39	0.01	32.83	0.98	360.0	1.12	1.08	1.06
380.0	3.43	3.41	0.02	32.53	1.09	380.0	1.11	1.07	1.06
400.0	3.45	3.41	0.03	32.13	1.14	400.0	1.12	1.07	1.05
420.0	3.43	3.43	0.00	31.54	1.07	420.0	1.13	1.06	1.05
440.0	3.41	3.42	0.01	30.79	1.27	440.0	1.12	1.06	1.04
460.0	3.47	3.47	0.01	30.16	1.28	460.0	1.10	1.05	1.04
480.0	3.48	3.46	0.02	29.31	1.26	480.0	1.11	1.05	1.04
500.0	3.47	3.47	0.01	28.61	1.38	500.0	1.11	1.04	1.05
520.0	3.47	3.46	0.01	27.80	1.45	520.0	1.10	1.04	1.05
540.0	3.51	3.48	0.03	27.09	1.45	540.0	1.08	1.03	1.05
560.0	3.51	3.51	0.00	26.39	1.42	560.0	1.09	1.03	1.05
580.0	3.53	3.50	0.03	25.71	1.57	580.0	1.09	1.02	1.06
600.0	3.54	3.52	0.02	25.08	1.66	600.0	1.08	1.01	1.07

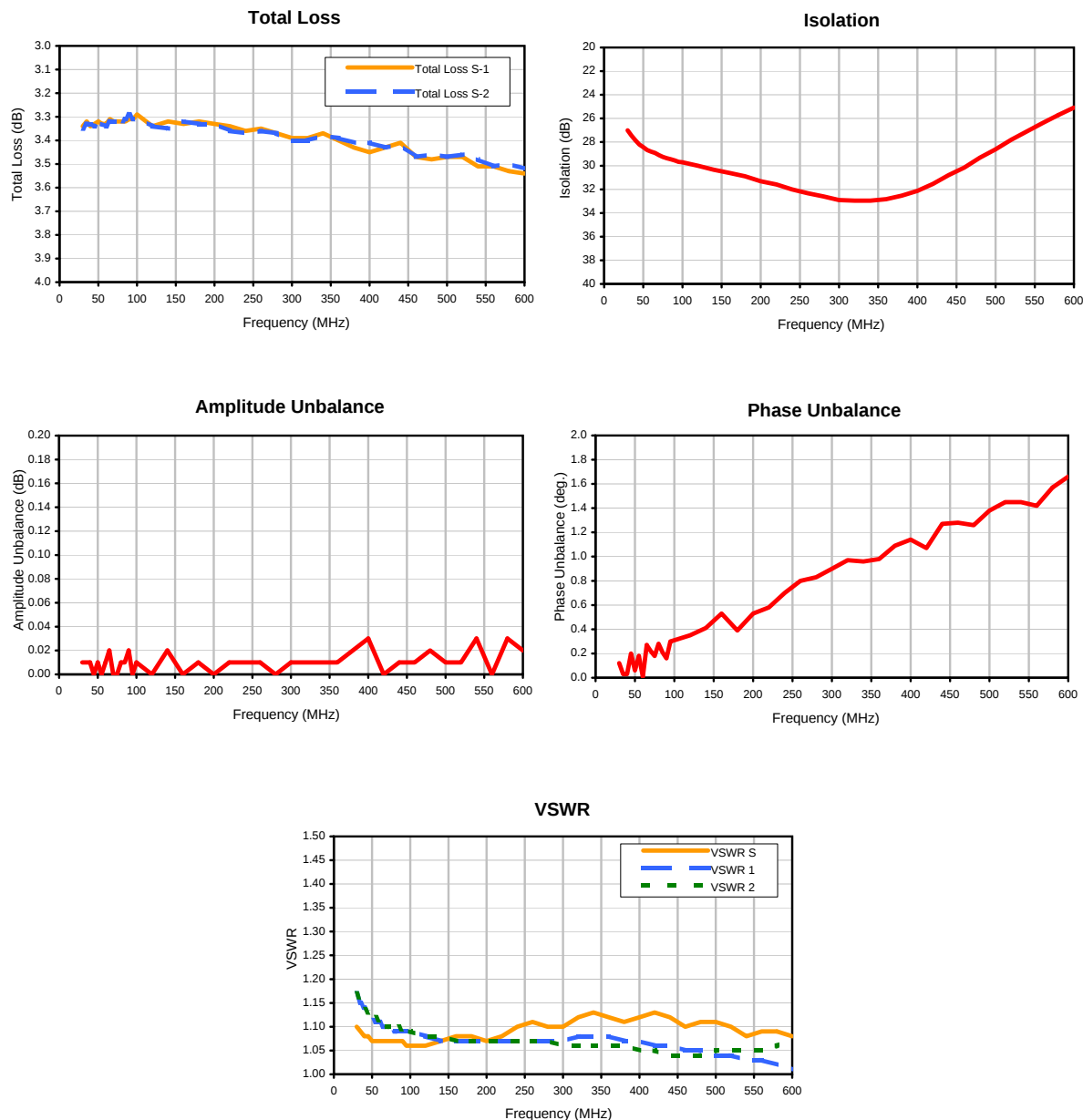
¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

REV. X2
PSC-2-1W-75
100705
Page 1 of 1

2 Way-0° Power Splitter/Combiner

PSC-2-1W-75

Typical Performance Curves



REV. X2
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Page 1 of 1



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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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