

Non-Catalog Model

Power Splitter/Combiner

PSC-2-500-1W

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 : A01

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter		Min.	Typ.	Max. Units
Frequency		225		500 MHz
Isolation	225 - 500 MHz	20	27	dB
Insertion Loss Above 3.0 dB	225 - 500 MHz		0.20	0.60 dB
Phase Unbalance	225 - 500 MHz		0.329	2.000 deg.
Amplitude Unbalance	225 - 500 MHz		0.009	0.200 dB
VSWR	SUM Port		1.36	(:1)
	OUT Ports		1.25	(:1)

Notes: Matched power rating: 1 Watt.

When only specification for M range given, specification applies to entire frequency range.

Internal load dissipation: 0.5 Watt.

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)	PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1)		
	S-1	S-2					S	1	2
225.0	3.07	3.07	0.00	22.71	0.14	225.0	1.34	1.39	1.40
230.0	3.05	3.05	0.00	22.91	0.12	230.0	1.34	1.38	1.39
260.0	3.23	3.23	0.00	24.08	0.14	260.0	1.34	1.33	1.34
290.0	3.37	3.38	0.00	24.70	0.24	290.0	1.34	1.29	1.30
320.0	3.29	3.28	0.01	24.67	0.41	320.0	1.35	1.26	1.27
350.0	3.18	3.18	0.00	24.28	0.31	350.0	1.36	1.23	1.25
355.0	3.19	3.17	0.02	24.23	0.43	355.0	1.36	1.23	1.24
366.3	3.22	3.21	0.01	24.09	0.39	366.3	1.36	1.22	1.24
377.5	3.26	3.26	0.01	23.93	0.40	377.5	1.36	1.21	1.23
388.8	3.31	3.30	0.01	23.79	0.37	388.8	1.37	1.21	1.23
400.0	3.35	3.34	0.01	23.63	0.30	400.0	1.37	1.20	1.22
425.0	3.39	3.38	0.02	23.25	0.42	425.0	1.37	1.19	1.21
450.0	3.30	3.28	0.01	22.78	0.36	450.0	1.37	1.18	1.20
475.0	3.31	3.29	0.02	22.45	0.45	475.0	1.38	1.17	1.18
500.0	3.38	3.36	0.02	22.19	0.46	500.0	1.38	1.16	1.17

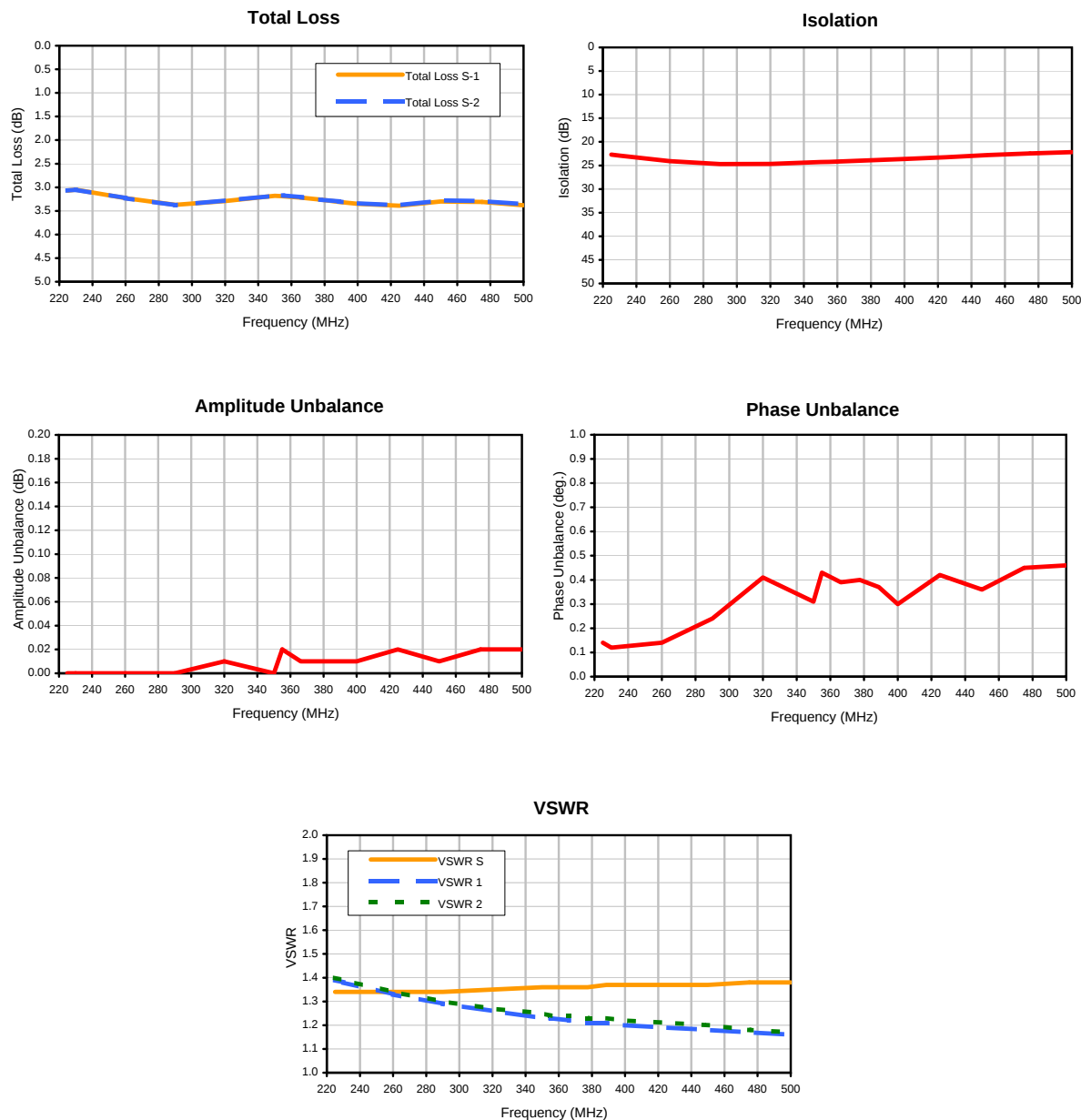
¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

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Typical Performance Curves



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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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