

Non-Catalog Model

Power Splitter/Combiner

PSC-2-1V-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.



Please click "Back", and then click "Contact Us" for Applications support.

CASE STYLE : A01

ELECTRICAL SPECIFICATIONS 75Ω @ +25°C				
Parameter		Min.	Typ.	Max. Units
Frequency		40		450 MHz
Isolation	40 - 400 MHz	27	31	dB
	225 - 450 MHz	27	35	dB
Insertion Loss Above 3.0 dB	40 - 400 MHz		0.50	dB
	225 - 450 MHz		0.54	dB
Phase Unbalance	40 - 400 MHz			4.000 deg.
	225 - 450 MHz			4.000 deg.
Amplitude Unbalance	40 - 400 MHz		0.014	dB
	225 - 450 MHz		0.030	dB
VSWR	SUM Port		1.06	(:1)
	OUT Ports		1.07	(: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



2 Way-0° Power Splitter/Combiner

PSC-2-1V-75

Typical Performance Data

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	ISOLATION (dB) 1-2	FREQ. (MHz)	VSWR (:1)		
	S-1	S-2				S	1	2
40.0	3.26	3.27	0.01	31.23	40.0	1.08	1.09	1.09
50.0	3.28	3.26	0.02	31.07	50.0	1.07	1.08	1.08
100.0	3.27	3.28	0.01	30.85	100.0	1.05	1.08	1.07
114.0	3.29	3.29	0.00	31.04	114.0	1.05	1.08	1.07
124.0	3.27	3.29	0.02	31.05	124.0	1.05	1.08	1.07
134.0	3.29	3.31	0.02	31.28	134.0	1.05	1.08	1.07
150.0	3.29	3.30	0.01	31.67	150.0	1.05	1.08	1.07
156.0	3.30	3.32	0.02	31.74	156.0	1.05	1.08	1.07
166.0	3.31	3.31	0.00	31.92	166.0	1.08	1.06	1.06
176.0	3.31	3.33	0.02	32.27	176.0	1.05	1.07	1.06
188.0	3.31	3.33	0.02	32.63	188.0	1.06	1.07	1.06
200.0	3.32	3.34	0.02	33.00	200.0	1.06	1.07	1.05
224.0	3.35	3.36	0.01	34.17	224.0	1.06	1.06	1.05
400.0	3.50	3.53	0.03	37.53	400.0	1.07	1.03	1.02
450.0	3.55	3.58	0.03	33.08	460.0	1.06	1.02	1.04

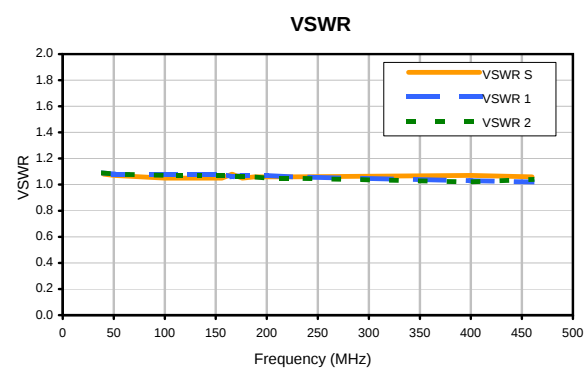
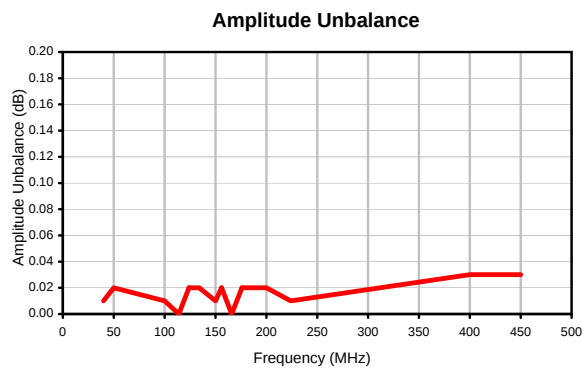
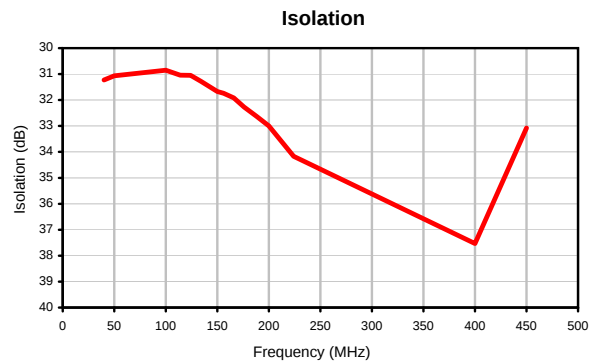
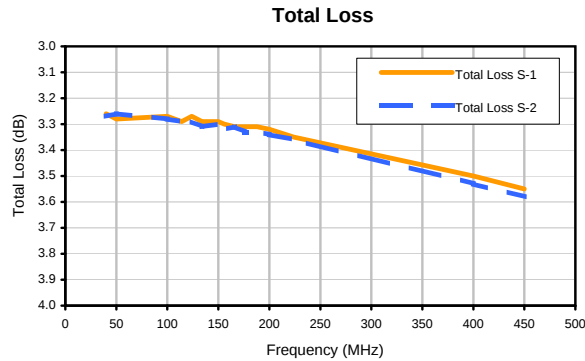
¹ Total Loss = Insertion Loss+ 3dB Splitter Loss



2 Way-0° Power Splitter/Combiner

PSC-2-1V-75

Typical Performance Curves



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.



INTERNET <http://www.minicircuits.com>

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

Distribution Centers NORTH AMERICA 800-654-7949 • 417-335-5935 • Fax 417-335-5945 • EUROPE 44-1252-832600 • Fax 44-1252-837010

Mini-Circuits ISO 9001 & ISO 14001 Certified