

Non-Catalog Model

Power Splitter/Combiner

PSC-3-1-75-2

3 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 75Ω @ +25°C					
Parameter		Min.	Typ.	Max.	Units
Frequency		10		300	MHz
Isolation	10 - 100 MHz	20	28		dB
	100 - 150 MHz	20	25		dB
	150 - 300 MHz	20	28		dB
Insertion Loss Above 4.8 dB	10 - 100 MHz		0.20	0.40	dB
	100 - 150 MHz		0.30	0.50	dB
	150 - 300 MHz		0.40	0.70	dB
Phase Unbalance	10 - 100 MHz			2.000	deg.
	100 - 150 MHz			3.000	deg.
	150 - 300 MHz			4.000	deg.
Amplitude Unbalance	10 - 100 MHz		0.042	0.150	dB
	100 - 150 MHz		0.090	0.200	dB
	150 - 300 MHz		0.194	0.300	dB
VSWR	SUM Port		1.18		(:1)
	OUT Ports		1.14		(:1)

Notes: Matched power rating: 1 Watt.

Internal load dissipation: 0.375 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	7
PORT 3	8
GND EXT	2, 3, 4, 6
CASE GND	2, 3, 4, 6

Functional Diagram



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Typical Performance Data

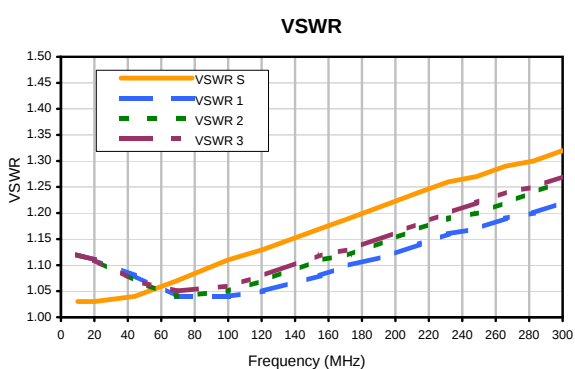
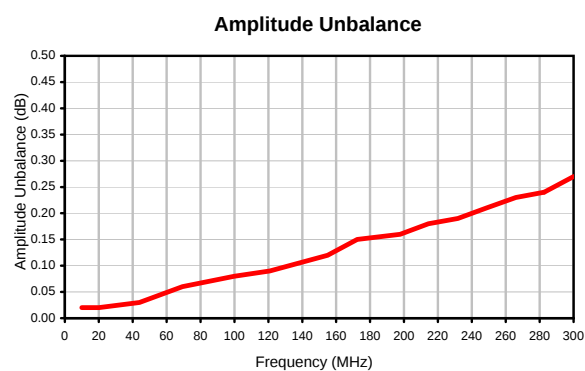
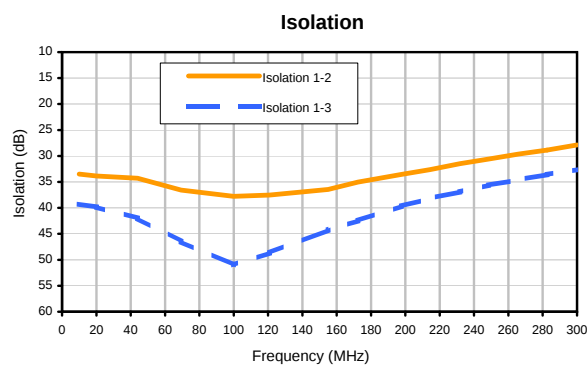
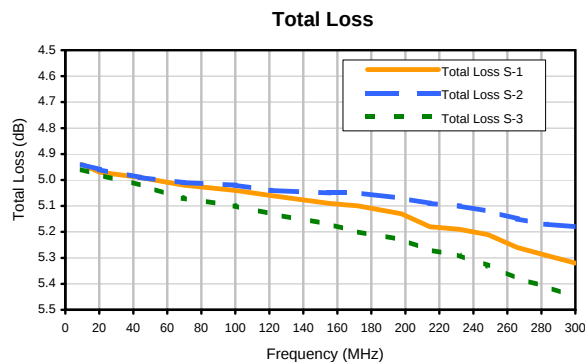
FREQ.	TOTAL LOSS ¹			AMP. UNBAL.	ISOLATION		FREQ.	VSWR			
(MHz)	(dB)			(dB)	(dB)		(MHz)	(:1)			
	S-1	S-2	S-3		1-2	2-3		S	1	2	3
10.00	4.94	4.94	4.96	0.02	33.48	39.30	10.00	1.03	1.12	1.12	1.12
20.10	4.97	4.96	4.98	0.02	33.85	39.84	20.10	1.03	1.11	1.11	1.11
44.00	4.99	4.99	5.02	0.03	34.30	42.00	44.00	1.04	1.08	1.07	1.07
69.40	5.02	5.01	5.07	0.06	36.57	46.49	69.40	1.07	1.04	1.04	1.05
99.90	5.04	5.02	5.10	0.08	37.76	51.00	99.90	1.11	1.04	1.05	1.06
120.90	5.06	5.04	5.13	0.09	37.54	48.66	120.90	1.13	1.05	1.07	1.08
155.00	5.09	5.05	5.17	0.12	36.45	44.24	155.00	1.17	1.08	1.11	1.12
172.40	5.10	5.05	5.20	0.15	35.04	42.46	172.40	1.19	1.10	1.12	1.13
197.70	5.13	5.07	5.23	0.16	33.55	39.67	197.70	1.22	1.12	1.15	1.16
214.40	5.18	5.09	5.27	0.18	32.63	38.17	214.40	1.24	1.14	1.17	1.18
231.80	5.19	5.10	5.29	0.19	31.48	36.90	231.80	1.26	1.16	1.19	1.20
248.50	5.21	5.12	5.33	0.21	30.58	35.62	248.50	1.27	1.17	1.20	1.22
265.90	5.26	5.15	5.38	0.23	29.64	34.60	265.90	1.29	1.19	1.22	1.24
282.60	5.29	5.17	5.41	0.24	28.88	33.58	282.60	1.30	1.20	1.24	1.25
300.00	5.32	5.18	5.45	0.27	27.89	32.62	300.00	1.32	1.22	1.26	1.27

¹ Total Loss = Insertion Loss+ 4.8dB 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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