

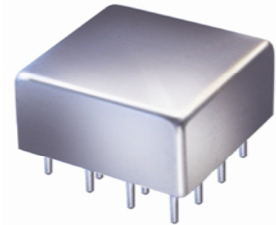
Power Splitter/Combiner

5 Way-0°

PSC-ED11261/1

Important Note

This model has been designed, built and tested in our engineering department. Performance data represents model capability. At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.



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

CASE STYLE : C07

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C					
Parameter		Min.	Typ.	Max.	Units
Frequency		1		300	MHz
Isolation	1 - 10 MHz		30		dB
	10 - 150 MHz		25		dB
	150 - 300 MHz		22		dB
Insertion Loss Above 7.0 dB	1 - 10 MHz		0.30		dB
	10 - 150 MHz		0.65		dB
	150 - 300 MHz		1.15		dB
Phase Unbalance	1 - 10 MHz		0.12		deg.
	10 - 150 MHz		1.34		deg.
	150 - 300 MHz		3.11		deg.
Amplitude Unbalance	1 - 10 MHz		0.01		dB
	10 - 150 MHz		0.02		dB
	150 - 300 MHz		0.06		dB
VSWR	SUM Port		1.42		(:1)
	OUT Ports		1.08		(:1)

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

PIN CONNECTIONS	
SUM PORT	1
PORT 1	4
PORT 2	8
PORT 3	12
PORT 4	16
PORT 5	15
CASE GND	2,5,7,11,13,14
NOT USED	3,6,9,10

Functional Diagram



5 Way-0° Power Splitter/Combiner

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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 OUTPUTS	
	S-1	S-2	S-3	S-4	S-5		1-2	1-3	2-3	3-5	4-5			S	
0.09	7.52	7.52	7.52	7.53	7.52	0.02	32.57	14.94	31.75	14.92	30.98	0.10	0.09	1.57	3.01
0.20	7.33	7.32	7.32	7.33	7.32	0.01	44.18	18.07	40.14	18.01	40.33	0.04	0.20	1.24	1.88
0.40	7.31	7.32	7.32	7.33	7.32	0.01	49.53	21.60	46.60	21.52	48.19	0.07	0.40	1.14	1.47
0.60	7.32	7.32	7.32	7.33	7.32	0.01	50.25	23.37	48.55	23.26	50.15	0.03	0.60	1.12	1.35
0.80	7.32	7.32	7.31	7.33	7.32	0.01	50.94	24.54	48.64	24.39	49.61	0.04	0.80	1.11	1.29
1.00	7.31	7.31	7.31	7.32	7.31	0.01	50.46	25.43	48.43	25.25	48.57	0.10	1.00	1.10	1.26
2.00	7.30	7.29	7.30	7.30	7.29	0.01	46.53	28.15	46.43	27.93	45.73	0.09	2.00	1.09	1.16
4.00	7.27	7.27	7.27	7.28	7.27	0.01	43.53	30.03	44.49	29.87	43.63	0.11	4.00	1.08	1.11
6.00	7.27	7.27	7.27	7.27	7.26	0.01	42.09	30.42	43.27	30.31	42.49	0.08	6.00	1.08	1.09
8.00	7.26	7.26	7.27	7.27	7.26	0.01	41.07	30.44	42.22	30.37	41.60	0.14	8.00	1.08	1.08
10.00	7.27	7.27	7.27	7.27	7.27	0.01	40.24	30.35	41.24	30.32	40.83	0.21	10.00	1.08	1.08
28.00	7.32	7.33	7.33	7.33	7.32	0.01	34.66	29.00	35.22	29.04	35.07	0.40	28.00	1.15	1.08
46.00	7.39	7.40	7.40	7.40	7.40	0.01	31.23	27.65	31.73	27.71	31.62	0.65	46.00	1.23	1.08
64.00	7.48	7.48	7.48	7.49	7.48	0.01	28.87	26.40	29.35	26.51	29.27	0.99	64.00	1.31	1.08
82.00	7.57	7.57	7.57	7.57	7.57	0.01	27.15	25.28	27.60	25.41	27.55	1.31	82.00	1.40	1.07
100.00	7.66	7.66	7.67	7.67	7.67	0.01	25.84	24.35	26.31	24.50	26.27	1.57	100.00	1.49	1.07
120.00	7.77	7.76	7.77	7.78	7.78	0.02	24.73	23.48	25.20	23.64	25.18	1.84	120.00	1.58	1.07
130.00	7.81	7.82	7.82	7.83	7.83	0.02	24.28	23.11	24.76	23.29	24.73	2.00	130.00	1.62	1.07
140.00	7.87	7.87	7.86	7.88	7.89	0.03	23.91	22.79	24.41	22.97	24.38	2.13	140.00	1.66	1.07
150.00	7.92	7.93	7.92	7.93	7.94	0.02	23.60	22.52	24.10	22.70	24.06	2.31	150.00	1.70	1.07
160.00	7.96	7.97	7.96	7.98	7.99	0.03	23.35	22.28	23.85	22.47	23.82	2.44	160.00	1.73	1.07
170.00	8.01	8.01	8.01	8.03	8.03	0.02	23.15	22.09	23.67	22.28	23.64	2.57	170.00	1.76	1.06
196.00	8.10	8.09	8.09	8.12	8.13	0.03	22.91	21.84	23.47	22.03	23.44	2.88	196.00	1.80	1.05
222.00	8.16	8.16	8.15	8.19	8.21	0.06	23.12	21.92	23.73	22.13	23.69	3.19	222.00	1.79	1.04
248.00	8.20	8.20	8.19	8.23	8.27	0.08	23.88	22.49	24.63	22.72	24.54	3.58	248.00	1.71	1.02
274.00	8.24	8.24	8.21	8.27	8.33	0.12	25.41	23.84	26.42	24.09	26.31	3.83	274.00	1.54	1.01
300.00	8.33	8.33	8.31	8.38	8.46	0.14	27.42	26.57	29.03	26.94	29.06	4.08	300.00	1.30	1.04
319.00	8.50	8.52	8.49	8.55	8.64	0.15	27.24	29.76	28.90	30.60	29.37	4.32	319.00	1.10	1.07
338.00	8.87	8.88	8.86	8.93	9.04	0.18	24.56	30.56	25.58	32.16	26.16	4.36	338.00	1.17	1.11
357.00	9.50	9.52	9.48	9.57	9.70	0.22	21.37	26.13	22.03	27.10	22.54	4.45	357.00	1.51	1.16
376.00	10.46	10.46	10.43	10.53	10.69	0.27	18.79	22.18	19.31	22.85	19.75	4.65	376.00	2.01	1.19
395.00	11.68	11.72	11.70	11.81	11.98	0.29	16.95	19.52	17.41	20.05	17.80	4.73	395.00	2.67	1.23

¹Total Loss = Insertion Loss + 7dB Splitter Loss

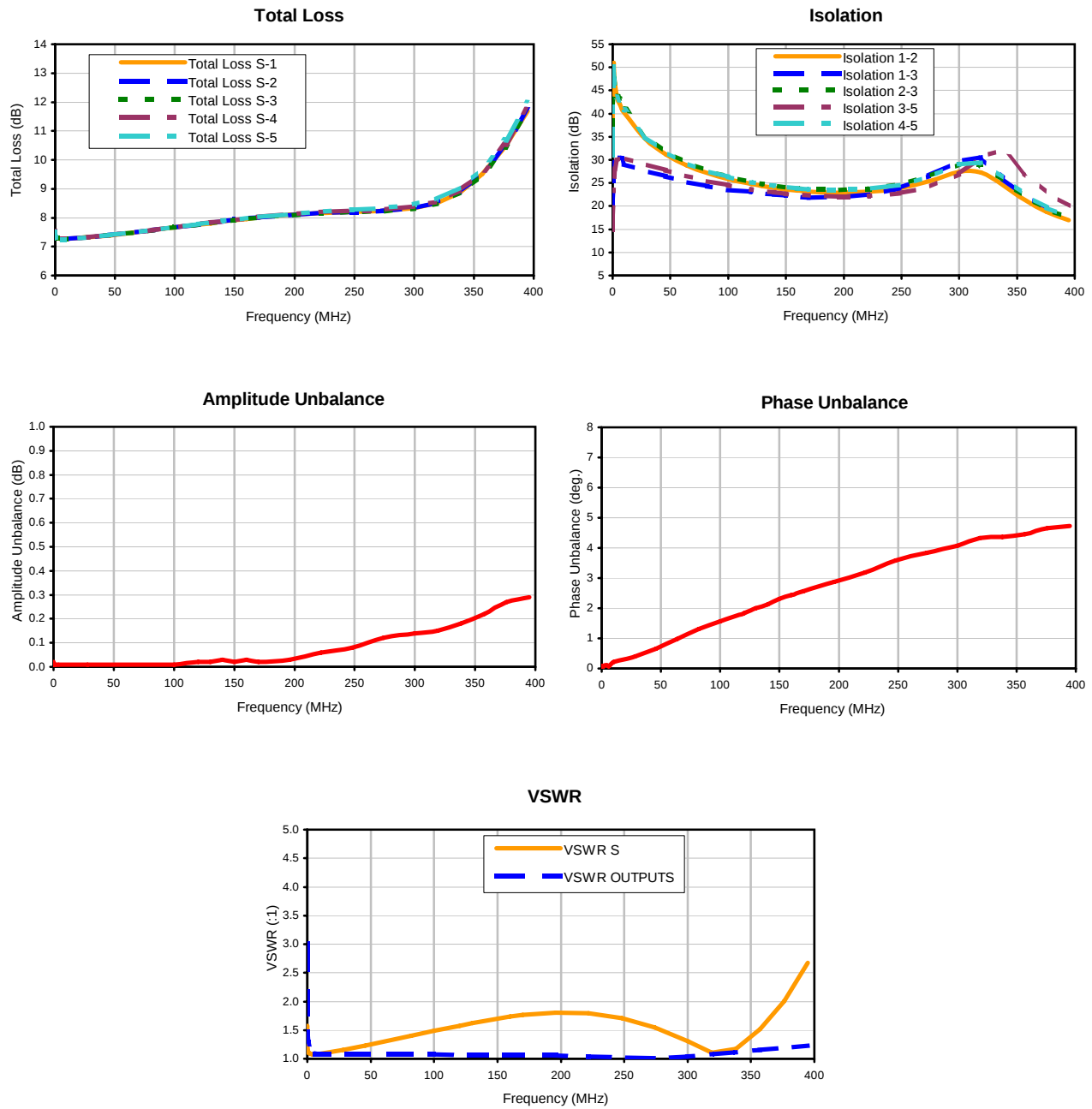


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IF/RF MICROWAVE COMPONENTS

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Typical Performance Curves



Outline Dimensions

C07



CASE#	A	B	C	D	E	F	G	H	WT. GRAM
C07	.770 (19.56)	.810 (20.57)	.380 (9.65)	.410 (10.41)	.030 (.76)	.200 (5.08)	.20 (5.08)	.14 (3.56)	11.0

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..
- 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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Mini-Circuits ISO 9001 & ISO 14001 Certified



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



Environmental Specifications ENV01

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
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