

Non-Catalog Model

Power Splitter/Combiner

ZFSC-82-75

8 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 : R29

ELECTRICAL SPECIFICATIONS 75Ω @ +25°C				
Parameter		Min.	Typ.	Max. Units
Frequency		10		900 MHz
Isolation	10 - 100 MHz	17	35	dB
	100 - 450 MHz	17	23	dB
	450 - 900 MHz	15	20	dB
Insertion Loss Above 9.0 dB	10 - 100 MHz		0.60	0.90 dB
	100 - 450 MHz		0.90	1.60 dB
	450 - 900 MHz		1.60	2.70 dB
Phase Unbalance	10 - 100 MHz			2.000 deg.
	100 - 450 MHz			4.000 deg.
	450 - 900 MHz			10.000 deg.
Amplitude Unbalance	10 - 100 MHz		0.020	0.200 dB
	100 - 450 MHz		0.089	0.500 dB
	450 - 900 MHz		0.481	1.200 dB
VSWR	SUM Port		1.58	(:1)
	OUT Ports		1.32	(:1)

MAXIMUM RATINGS	
Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C

PIN CONNECTIONS	
SUM PORT	S(COM)
PORT 1	1
PORT 2	2
PORT 3	3
PORT 4	4
PORT 5	5
PORT 6	6
PORT 7	7
PORT 8	8

Functional Diagram



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Typical Performance Data

FREQ. (MHz)	TOTAL LOSS ¹ (dB)						AMP. UNBAL. (dB)	ISOLATION (dB)				FREQ. (MHz)	VSWR (:1)		
	S-1	S-2	S-3	S-4	S-6	S-8		1-2	1-8	3-4	5-7		S	1	8
10.0	9.40	9.41	9.41	9.41	9.42	9.41	0.02	29.52	36.05	29.51	25.17	10.0	1.42	1.18	1.18
69.8	9.48	9.49	9.49	9.48	9.49	9.50	0.02	34.13	38.89	34.42	23.71	69.8	1.37	1.10	1.10
128.3	9.59	9.60	9.60	9.60	9.59	9.59	0.02	38.29	42.62	37.90	23.28	128.3	1.32	1.07	1.06
200.3	9.67	9.68	9.66	9.68	9.67	9.65	0.04	38.05	46.47	38.03	22.53	200.3	1.25	1.08	1.07
247.5	9.74	9.73	9.74	9.75	9.73	9.73	0.05	36.02	51.70	35.74	21.95	247.5	1.24	1.11	1.10
306.0	9.84	9.85	9.85	9.87	9.84	9.84	0.08	33.18	50.48	33.23	21.22	306.0	1.29	1.16	1.14
366.8	9.98	10.00	10.01	10.03	9.98	9.97	0.13	31.21	45.06	30.97	20.73	366.8	1.42	1.23	1.21
400.5	10.10	10.15	10.14	10.15	10.10	10.09	0.12	30.35	42.54	30.06	20.50	400.5	1.52	1.27	1.24
450.0	10.34	10.37	10.38	10.39	10.31	10.29	0.18	29.37	40.07	28.95	20.41	450.0	1.68	1.33	1.30
499.5	10.60	10.65	10.63	10.66	10.57	10.52	0.23	28.91	38.20	28.26	20.50	499.5	1.84	1.41	1.36
573.8	10.94	10.99	10.99	11.02	10.87	10.82	0.31	28.69	36.01	27.82	21.22	573.8	2.06	1.51	1.45
632.3	11.17	11.25	11.23	11.27	11.07	10.99	0.40	28.96	35.06	27.64	22.20	632.3	2.17	1.58	1.51
722.3	11.34	11.48	11.40	11.49	11.18	11.11	0.55	29.20	33.18	27.66	24.58	722.3	2.09	1.67	1.57
810.0	11.23	11.41	11.31	11.41	11.03	10.91	0.73	28.45	32.47	27.44	26.83	810.0	1.72	1.70	1.57
900.0	11.26	11.52	11.34	11.47	10.99	10.86	0.97	26.08	32.11	26.08	26.29	900.0	1.26	1.69	1.54

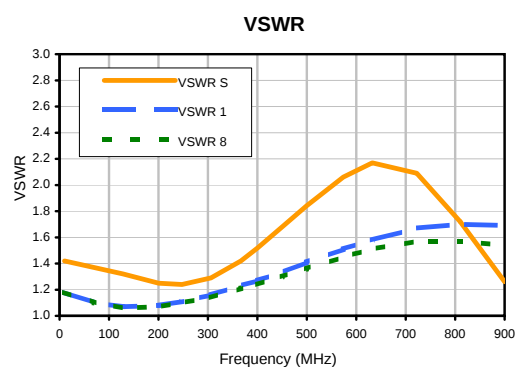
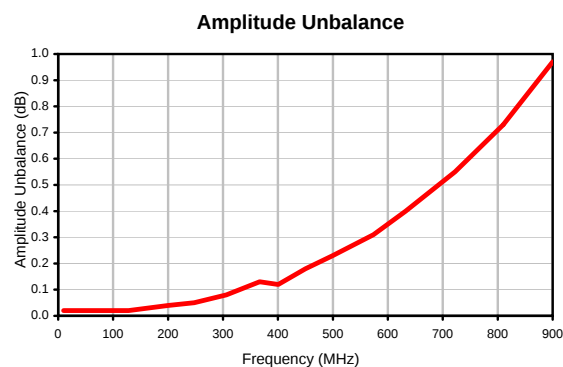
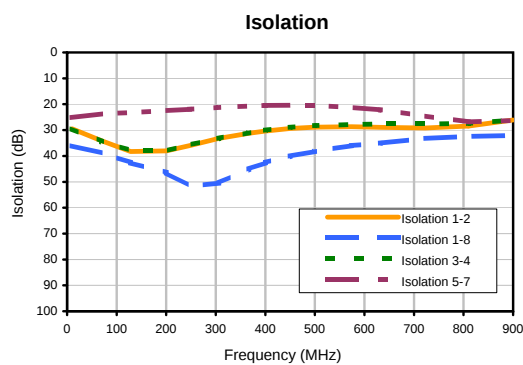
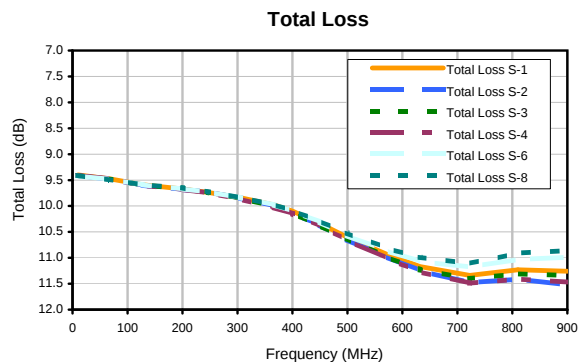
¹ Total Loss = Insertion Loss+ 9dB Splitter Loss

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Typical Performance Curves



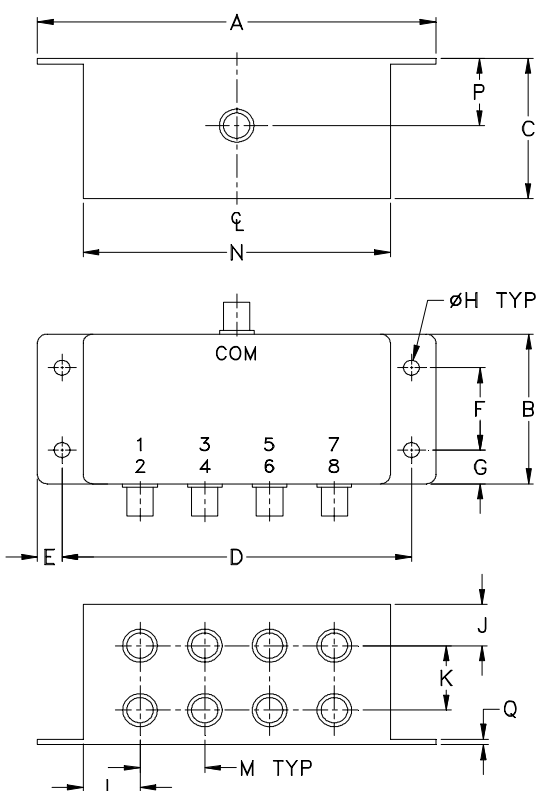
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Outline Dimensions



CASE#	A	B	C	D	E	F	G	H	J	K	L	M	N
R29	4.06 (103.12)	1.60 (40.64)	1.57 (39.88)	3.56 (90.42)	.24 (6.10)	.88 (22.35)	.36 (9.14)	.160 (4.06)	.43 (10.92)	.69 (17.53)	.58 (14.73)	.66 (16.76)	3.13 (79.50)

CASE#	P	Q	WT. GRAMS
R29	.79 (20.07)	.13 (3.18)	200.0

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .03$; 3 Pl. $\pm .015$

Notes:

- Case material: Aluminum alloy.
- Case finish:

For RoHS Case Styles:

Clear chemical conversion coating, non-chrome or trivalent chrome based.



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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 85°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Barometric Pressure	100,000 Feet	MIL-STD-202, Method 105, Condition D
Humidity	90% RH, 65°C Units may require bake-out after humidity to restore full performance.	MIL-STD-202, Method 103
Thermal Shock	-65° to 125°C, 5 cycles	MIL-STD-202, Method 107, Condition B
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	100g, 6ms sawtooth, 3 shocks each direction 3 axes (total 18)	MIL-STD-202, Method 213, Condition I