Non-Catalog Model

Power Splitter/Combiner ZFSC-4-2-75-1

4 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 : G15

ELECTRICAL SPECIFICATIONS 75Ω @ +25°C					
Parameter		**Min.**	**Typ.**	**Max.**	**Units**
Frequency		200		800	MHz
Isolation	**200 - 800 MHz**	20	25		dB
Insertion Loss Above 6.0 dB	**200 - 800 MHz**		0.80	1.60	dB
Phase Unbalance	**200 - 800 MHz**			4.000	deg.
Amplitude Unbalance	**200 - 800 MHz**		0.123	0.200	dB
VSWR	**SUM Port**		1.34		(:1)
	OUT Ports		1.38		(:1)

Notes: Matched power rating: 1 Watt.
Internal load dissipation: 0.25 Watt.
Denotes 75 Ohm model, for coax connector models 75 Ohm BNC connectors are standard.
Up to 15V and 15mA DC may be passed from input to all outputs.

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

PIN CONNECTIONS	
SUM PORT	S
PORT 1	1
PORT 2	2
PORT 3	3
PORT 4	4

Functional Diagram

4 Way-0° Power Splitter/Combiner ZFSC-4-2-75-1

Typical Performance Data

FREQ. (MHz)	TOTAL LOSS[1] (dB)				AMP. UNBAL. (dB)	ISOLATION (dB)		
	S-1	S-2	S-3	S-4		1-2	2-3	3-4
200.0	6.65	6.64	6.67	6.66	0.03	30.74	36.90	36.14
216.5	6.65	6.63	6.66	6.65	0.03	31.03	37.21	36.50
249.5	6.66	6.64	6.67	6.67	0.03	30.99	37.93	36.83
300.5	6.66	6.64	6.68	6.68	0.04	30.51	39.02	36.75
350.0	6.70	6.67	6.71	6.72	0.05	29.75	40.33	36.32
399.5	6.72	6.68	6.74	6.74	0.06	28.86	40.42	35.72
450.5	6.78	6.73	6.80	6.81	0.08	28.10	39.31	35.17
500.0	6.85	6.80	6.88	6.89	0.09	27.41	39.85	34.66
549.5	6.92	6.86	6.97	6.98	0.12	26.84	37.98	34.47
600.5	6.97	6.90	7.03	7.05	0.15	26.56	35.91	34.67
650.5	7.03	6.96	7.11	7.13	0.17	26.42	34.48	35.07
699.5	7.09	7.02	7.20	7.23	0.21	26.56	33.17	35.44
750.5	7.14	7.07	7.29	7.31	0.24	26.73	32.19	35.77
783.5	7.19	7.11	7.36	7.38	0.27	26.99	31.68	35.57
800.0	7.21	7.14	7.41	7.42	0.28	27.14	31.35	35.29

FREQ. (MHz)	VSWR (:1)				
	S	1	2	3	4
200.0	1.31	1.40	1.39	1.41	1.40
216.5	1.32	1.40	1.39	1.41	1.40
249.5	1.35	1.40	1.38	1.40	1.39
300.5	1.38	1.40	1.37	1.40	1.38
350.0	1.41	1.39	1.36	1.39	1.38
399.5	1.43	1.39	1.34	1.39	1.37
450.5	1.44	1.39	1.33	1.39	1.37
500.0	1.43	1.38	1.32	1.38	1.36
549.5	1.40	1.37	1.31	1.38	1.36
600.5	1.36	1.37	1.30	1.38	1.36
650.0	1.31	1.37	1.29	1.38	1.36
699.5	1.27	1.37	1.30	1.39	1.38
750.5	1.23	1.38	1.32	1.41	1.40
783.5	1.22	1.40	1.33	1.42	1.41
800.0	1.23	1.40	1.34	1.43	1.42

[1] Total Loss = Insertion Loss+ 6dB Splitter Loss

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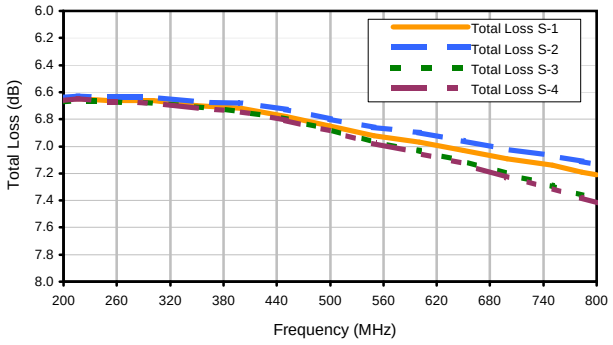
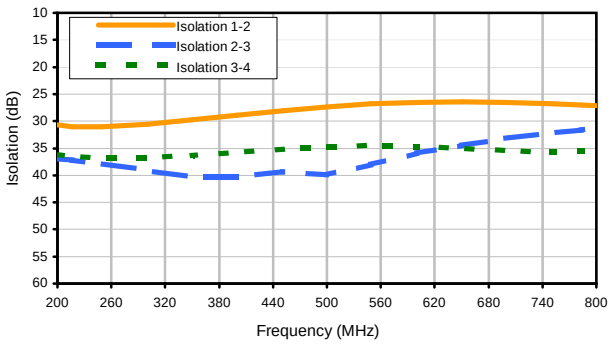
Typical Performance Curves

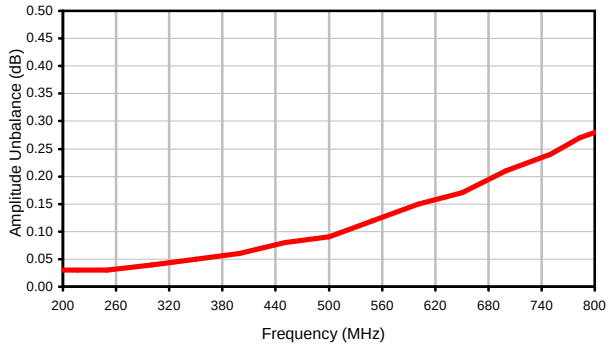
Total Loss



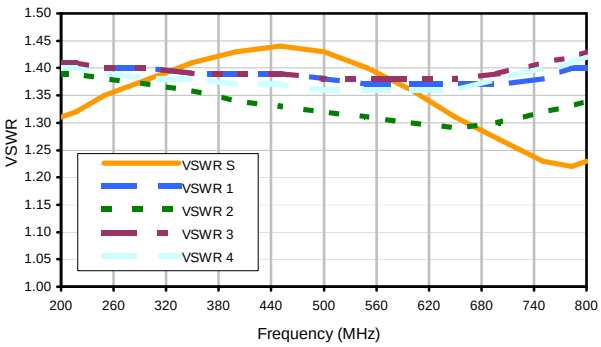
Isolation



Amplitude Unbalance



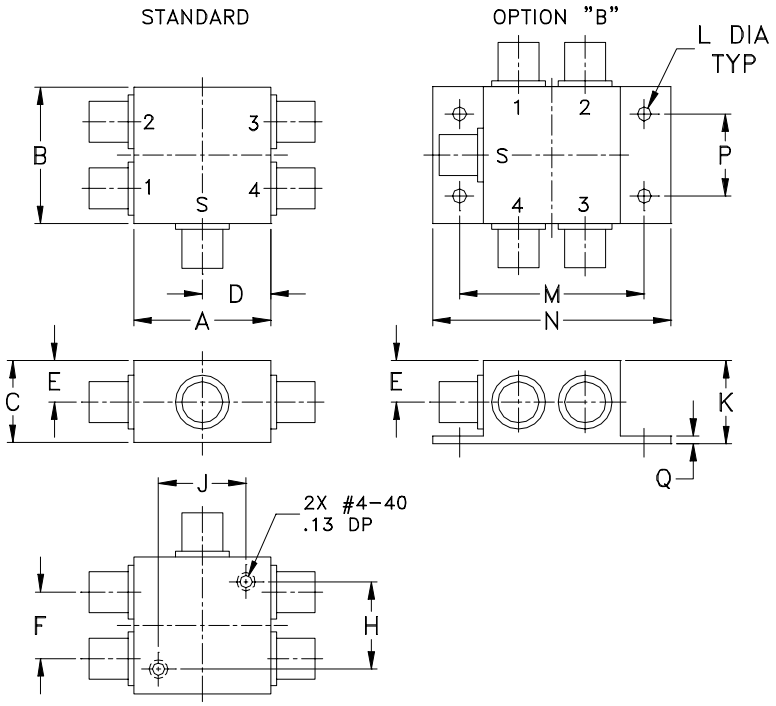
VSWR



Case Style G

G15

Outline Dimensions



CASE #	A	B	C	D	E	F	G	H	J	K	L
G15	1.25 (31.75)	1.25 (31.75)	.75 (19.05)	.63 (16.00)	.38 (9.65)	.61 (15.49)	-- --	.80 (20.32)	.80 (20.32)	.76 (19.30)	.125 (3.18)

CASE #	M	N	P	Q	WT. GRAM
G15	1.688 (42.88)	2.18 (55.37)	.75 (19.05)	.07 (1.78)	85.0

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

Notes:

1. Case material: Aluminum alloy.
2. Case finish:
   For RoHS Case Styles: Clear chemical conversion coating, non-chrome or trivalent chrome based.
3. Mounting bracket available on request. Add suffix B to part number.
4. For Bracket version, option "B" dimension "K" changes from .76 to .90 inches when connectors are type TNC.

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Environmental Specifications **ENV28T8**

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