

Power Splitter/Combiner

ZASC-ED8005/1

2 Way-0°

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 : F14

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter		Min.	Typ.	Max. Units
Frequency		1		500 MHz
Isolation	1 - 10 MHz		28	dB
	10 - 250 MHz		29	dB
	250 - 500 MHz		26	dB
Insertion Loss Above 3.0 dB	1 - 10 MHz		0.34	dB
	10 - 250 MHz		0.35	dB
	250 - 500 MHz		0.56	dB
Phase Unbalance	1 - 10 MHz		0.020	deg.
	10 - 250 MHz		0.192	deg.
	250 - 500 MHz		0.597	deg.
Amplitude Unbalance	1 - 10 MHz		0.000	dB
	10 - 250 MHz		0.002	dB
	250 - 500 MHz		0.003	dB
VSWR	SUM Port		1.04	(:1)
	OUT Ports		1.12	(:1)

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

Functional Diagram



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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-1	S-2					S	1	2
1.0	3.41	3.41	0.00	24.70	0.03	1.0	1.12	1.29	1.29
5.0	3.26	3.26	0.00	31.08	0.01	5.0	1.05	1.14	1.14
23.8	3.26	3.26	0.00	32.61	0.05	23.8	1.02	1.11	1.11
42.5	3.28	3.28	0.00	31.82	0.05	42.5	1.02	1.11	1.11
61.3	3.30	3.30	0.00	31.03	0.07	61.3	1.02	1.11	1.11
80.0	3.30	3.31	0.01	30.24	0.09	80.0	1.02	1.10	1.10
95.0	3.32	3.32	0.00	29.63	0.12	95.0	1.01	1.10	1.10
97.5	3.33	3.33	0.00	29.54	0.18	97.5	1.01	1.10	1.10
100.0	3.33	3.33	0.01	29.44	0.14	100.0	1.01	1.10	1.10
102.5	3.33	3.34	0.01	29.35	0.14	102.5	1.01	1.10	1.10
105.0	3.34	3.34	0.00	29.25	0.17	105.0	1.01	1.10	1.10
110.0	3.33	3.34	0.01	29.07	0.18	110.0	1.01	1.10	1.10
120.0	3.34	3.34	0.00	28.74	0.19	120.0	1.01	1.10	1.10
130.0	3.35	3.35	0.00	28.42	0.18	130.0	1.01	1.10	1.10
140.0	3.37	3.37	0.00	28.10	0.21	140.0	1.01	1.10	1.10
150.0	3.37	3.37	0.00	27.81	0.25	150.0	1.01	1.09	1.10
160.0	3.38	3.38	0.00	27.52	0.25	160.0	1.01	1.09	1.10
170.0	3.38	3.38	0.00	27.25	0.27	170.0	1.02	1.09	1.09
180.0	3.38	3.38	0.00	26.97	0.30	180.0	1.02	1.09	1.09
190.0	3.39	3.40	0.00	26.74	0.30	190.0	1.02	1.09	1.09
200.0	3.41	3.41	0.00	26.52	0.31	200.0	1.02	1.09	1.09
250.0	3.49	3.48	0.00	25.70	0.39	250.0	1.03	1.08	1.09
300.0	3.45	3.45	0.00	25.10	0.46	300.0	1.06	1.09	1.09
350.0	3.56	3.55	0.00	24.98	0.56	350.0	1.09	1.10	1.11
400.0	3.53	3.53	0.00	25.11	0.64	400.0	1.13	1.13	1.13
450.0	3.60	3.59	0.01	25.75	0.73	450.0	1.18	1.17	1.17
500.0	3.76	3.75	0.01	27.02	0.80	500.0	1.23	1.22	1.22

¹ Total Loss = Insertion Loss + 3dB Splitter Loss

REV. X2

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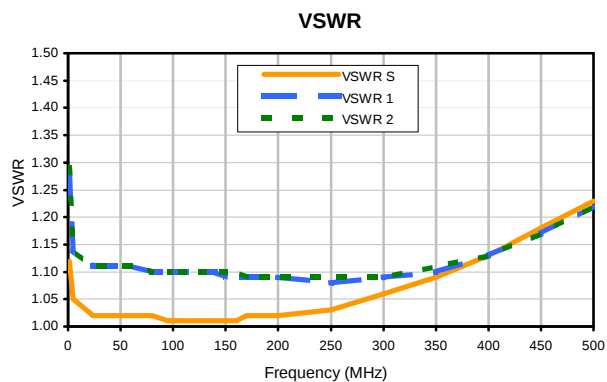
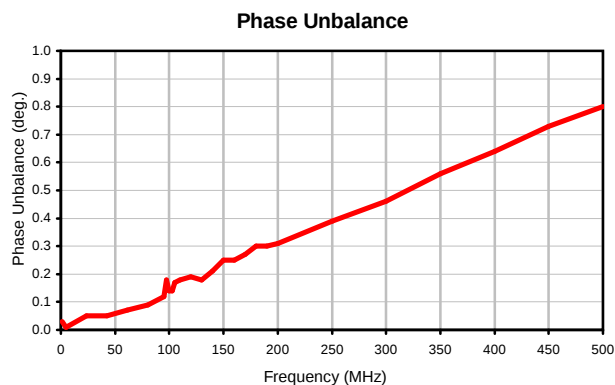
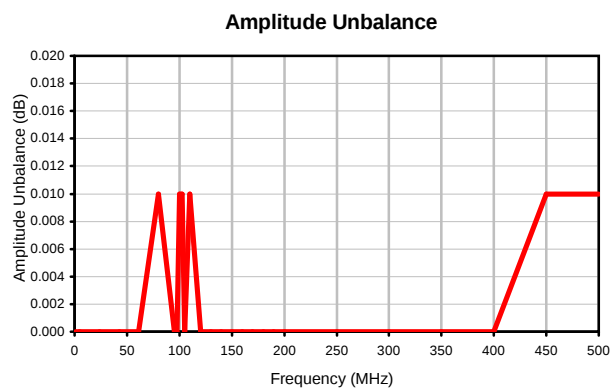
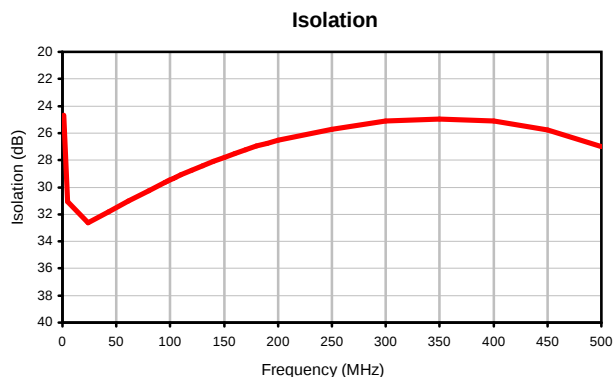
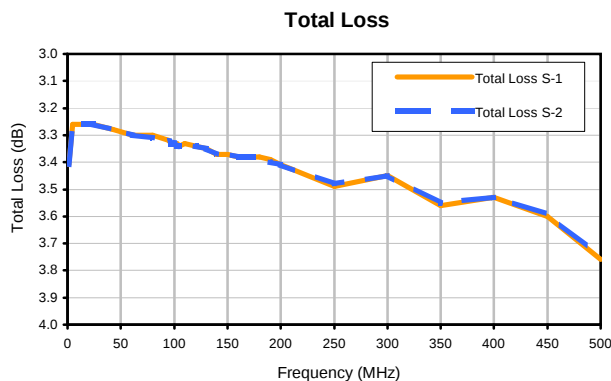
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Typical Performance Curves



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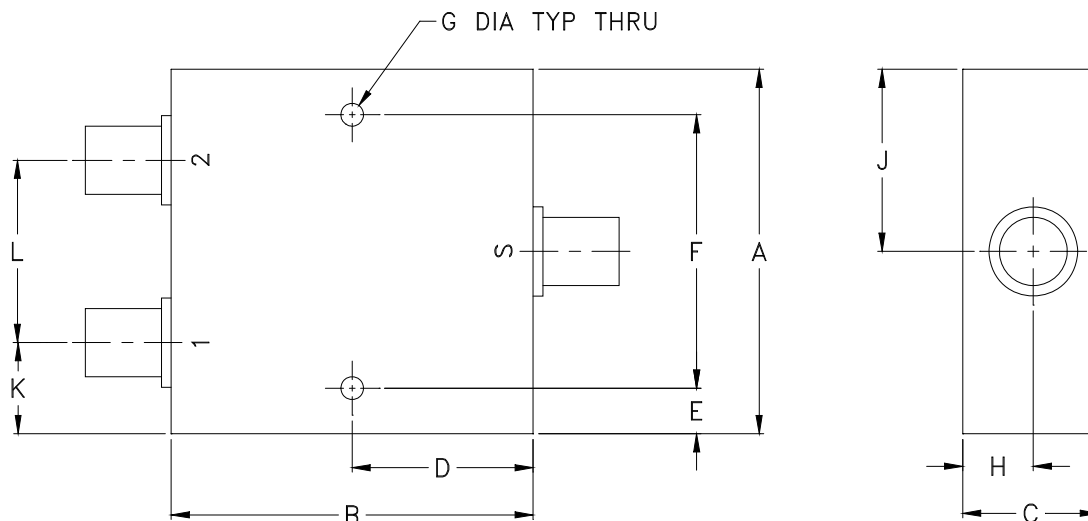
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Outline Dimensions



CASE #	A	B	C	D	E	F	G	H	J	K	L	WT. GRAM
F14	2.00 (50.80)	2.00 (50.80)	.75 (19.05)	1.00 (25.40)	.25 (6.35)	1.500 (38.10)	.125 (3.18)	.39 (9.91)	1.00 (25.40)	.50 (12.70)	1.00 (25.40)	170.0

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

Notes:

- Case material: Aluminum alloy.
- Case finish:
For RoHS Case Styles: Clear chemical conversion coating, non-chrome or trivalent chrome based.
- Refer to the individual model data sheet for the type of connectors available.



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