

Power Splitter/Combiner

ZAPD-ED7833/1

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 : F53

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter		Min.	Typ.	Max. Units
Frequency		300		2250 MHz
Isolation	300 - 2250 MHz		25	dB
Insertion Loss Above 3.0 dB	300 - 2250 MHz		0.22	dB
Phase Unbalance	300 - 2250 MHz		0.085	deg.
Amplitude Unbalance	300 - 2250 MHz		0.052	dB
VSWR	SUM Port		1.27	(: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
300.0	3.29	3.33	0.03	13.78	0.17	300.0	1.64	1.08	1.10
350.0	3.22	3.26	0.04	15.89	0.13	350.0	1.54	1.09	1.11
400.0	3.18	3.21	0.02	18.45	0.10	400.0	1.45	1.12	1.14
450.0	3.16	3.20	0.04	21.68	0.07	450.0	1.36	1.14	1.16
500.0	3.14	3.18	0.04	25.87	0.08	500.0	1.28	1.15	1.16
600.0	3.14	3.17	0.03	30.90	0.06	600.0	1.14	1.12	1.13
700.0	3.14	3.17	0.03	25.83	0.05	700.0	1.08	1.08	1.08
800.0	3.15	3.19	0.04	24.81	0.05	800.0	1.12	1.07	1.07
900.0	3.16	3.19	0.03	27.18	0.04	900.0	1.16	1.11	1.10
1000.0	3.17	3.20	0.03	35.53	0.00	1000.0	1.15	1.13	1.12
1100.0	3.19	3.22	0.03	34.41	0.05	1100.0	1.10	1.11	1.11
1200.0	3.17	3.19	0.02	27.02	0.05	1200.0	1.06	1.08	1.09
1300.0	3.15	3.18	0.03	25.01	0.07	1300.0	1.11	1.10	1.10
1400.0	3.19	3.21	0.02	26.12	0.06	1400.0	1.17	1.14	1.12
1500.0	3.23	3.24	0.01	30.78	0.05	1500.0	1.18	1.13	1.11
1600.0	3.22	3.23	0.01	31.26	0.01	1600.0	1.16	1.08	1.06
1700.0	3.18	3.19	0.01	25.50	0.00	1700.0	1.20	1.02	1.07
1800.0	3.18	3.16	0.02	23.38	0.09	1800.0	1.28	1.12	1.14
1900.0	3.24	3.19	0.05	25.06	0.12	1900.0	1.29	1.20	1.19
2000.0	3.32	3.24	0.08	34.73	0.05	2000.0	1.19	1.21	1.16
2050.0	3.34	3.25	0.09	29.51	0.03	2050.0	1.14	1.18	1.13
2100.0	3.33	3.20	0.13	22.76	0.16	2100.0	1.19	1.13	1.10
2150.0	3.33	3.22	0.11	18.56	0.02	2150.0	1.35	1.08	1.12
2200.0	3.31	3.15	0.16	15.49	0.52	2200.0	1.58	1.05	1.18
2250.0	3.46	3.27	0.19	13.19	0.09	2250.0	1.87	1.08	1.26

¹ Total Loss = Insertion Loss + 3dB Splitter Loss

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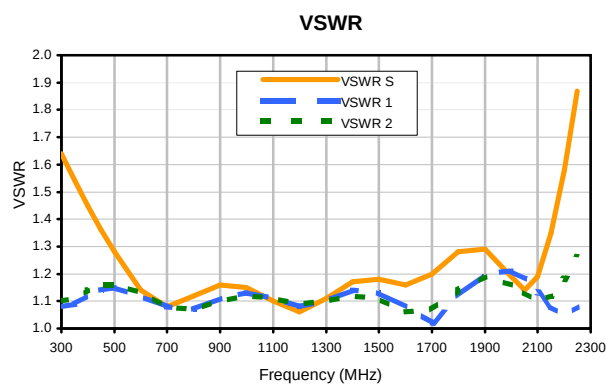
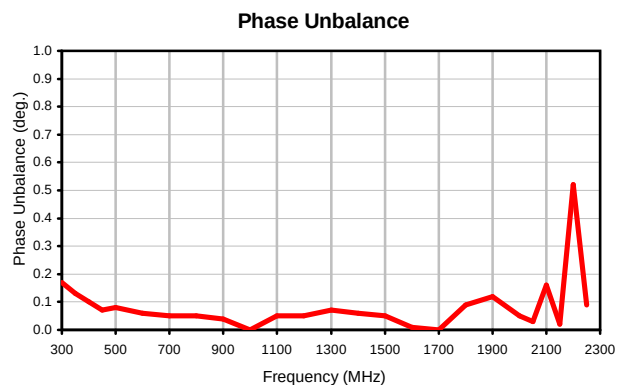
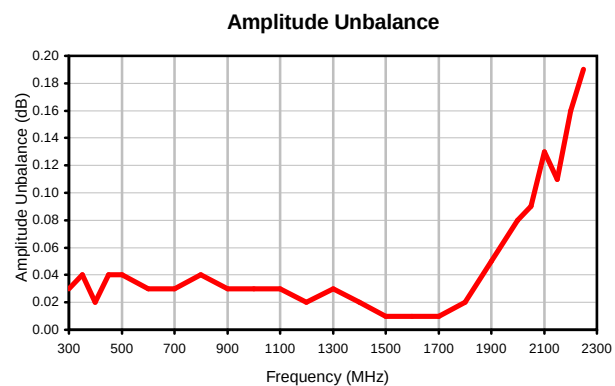
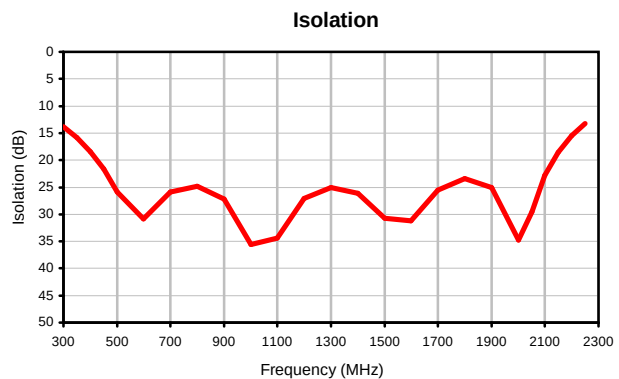
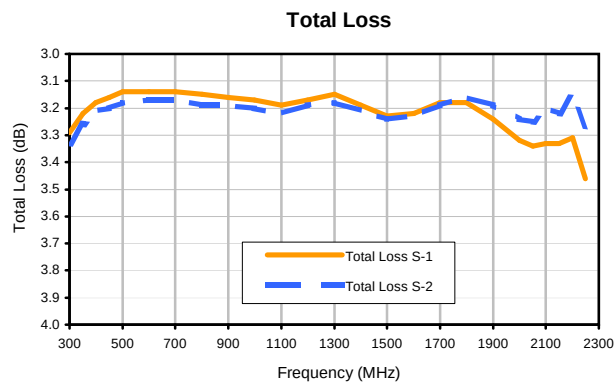
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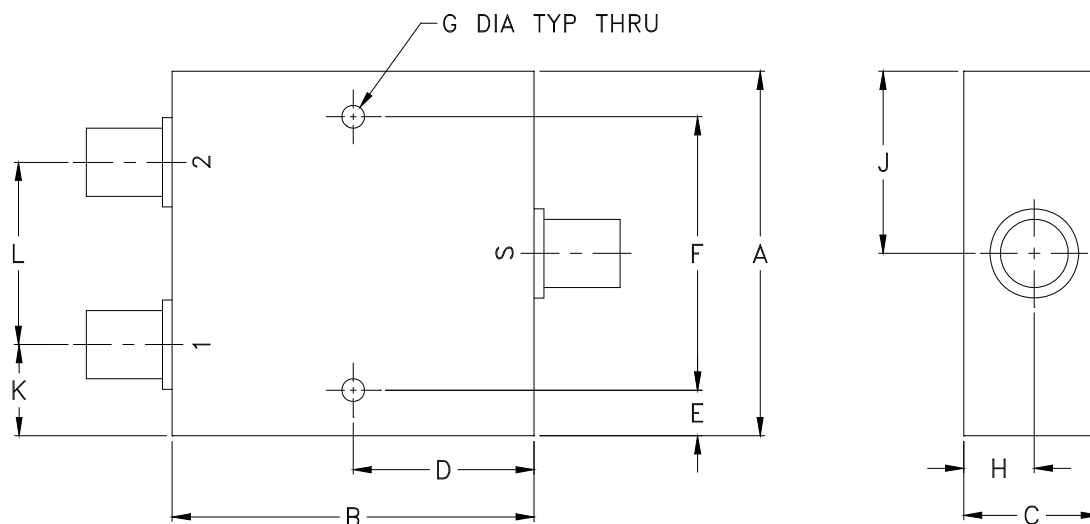
Typical Performance Curves



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Outline Dimensions

F53



CASE #	A	B	C	D	E	F	G	H	J	K	L	WT. GRAM
F53	2.00 (50.80)	2.00 (50.80)	.75 (19.05)	1.00 (25.40)	.13 (3.30)	1.750 (44.45)	.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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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
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