

Engineering Development Model

Power Splitter/Combiner 3ZB2CS-ED12265/2

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.



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CASE STYLE : 99-01-1174

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter		Min.	Typ.	Max. Units
Frequency		1750		2220 MHz
Isolation	1750 - 2220 MHz		25	dB
Insertion Loss Above 3.0 dB	1750 - 2220 MHz		0.35	dB
Phase Unbalance	1750 - 2220 MHz		0.335	deg.
Amplitude Unbalance	1750 - 2220 MHz		0.019	dB
VSWR	SUM Port		1.20	(:1)
	OUT Ports		1.15	(:1)

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

Functional Diagram



2 Way-0° Power Splitter/Combiner 3ZB2CS-ED12265/2

Typical Performance Data

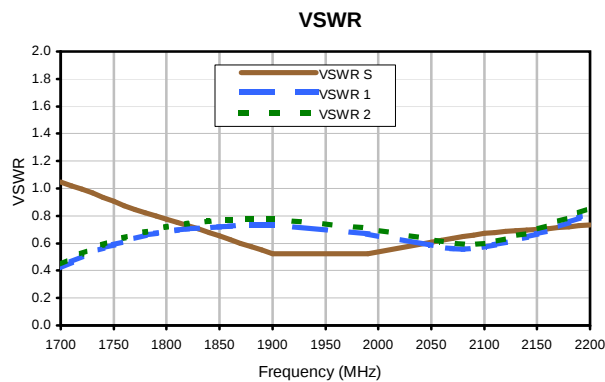
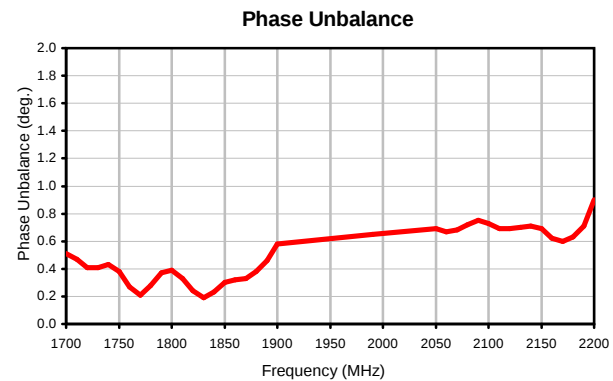
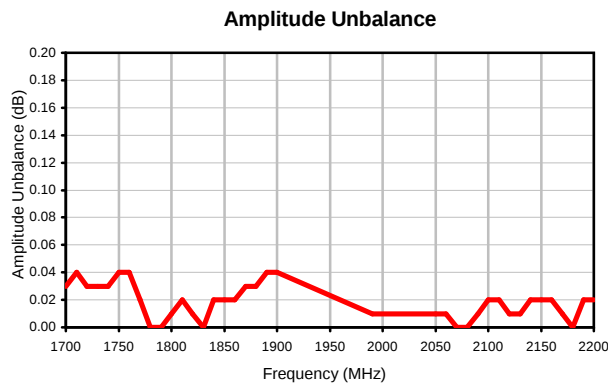
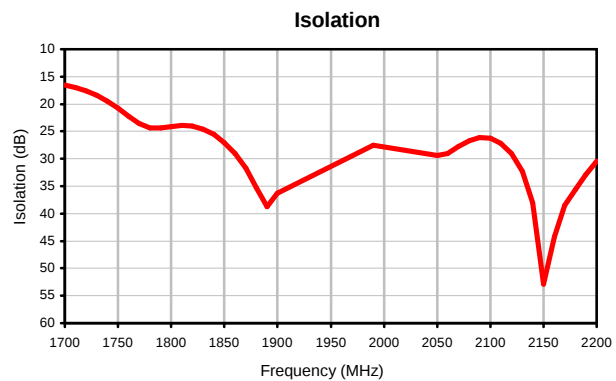
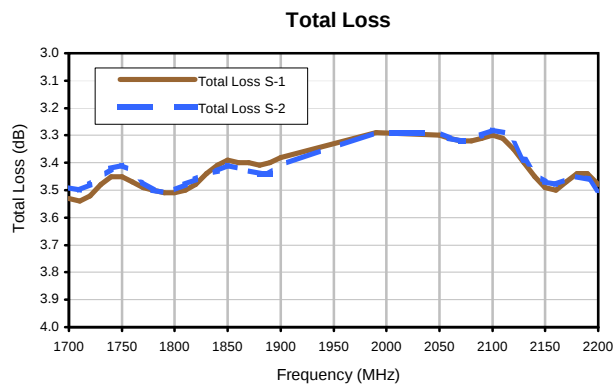
FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	ISOLATION (dB)	PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1)		
	S-1	S-2					S	1	2
1700.0	3.53	3.49	0.03	16.57	0.51	1700.0	1.05	0.41	0.44
1710.0	3.54	3.50	0.04	17.05	0.47	1710.0	1.02	0.46	0.48
1720.0	3.52	3.48	0.03	17.64	0.41	1720.0	0.99	0.50	0.52
1730.0	3.48	3.45	0.03	18.41	0.41	1730.0	0.97	0.54	0.56
1740.0	3.45	3.42	0.03	19.43	0.43	1740.0	0.94	0.56	0.59
1750.0	3.45	3.41	0.04	20.73	0.38	1750.0	0.91	0.59	0.62
1760.0	3.47	3.43	0.04	22.22	0.27	1760.0	0.88	0.61	0.64
1770.0	3.49	3.47	0.02	23.58	0.21	1770.0	0.85	0.64	0.66
1780.0	3.50	3.50	0.00	24.35	0.28	1780.0	0.82	0.66	0.68
1790.0	3.51	3.51	0.00	24.40	0.37	1790.0	0.80	0.67	0.70
1800.0	3.51	3.50	0.01	24.09	0.39	1800.0	0.77	0.69	0.72
1810.0	3.50	3.48	0.02	23.87	0.33	1810.0	0.75	0.70	0.73
1820.0	3.48	3.46	0.01	23.99	0.24	1820.0	0.73	0.70	0.74
1830.0	3.44	3.44	0.00	24.55	0.19	1830.0	0.70	0.71	0.75
1840.0	3.41	3.43	0.02	25.55	0.23	1840.0	0.68	0.72	0.76
1850.0	3.39	3.41	0.02	27.04	0.30	1850.0	0.65	0.72	0.77
1860.0	3.40	3.42	0.02	29.02	0.32	1860.0	0.63	0.72	0.77
1870.0	3.40	3.43	0.03	31.68	0.33	1870.0	0.60	0.73	0.77
1880.0	3.41	3.44	0.03	35.29	0.38	1880.0	0.57	0.73	0.78
1890.0	3.40	3.44	0.04	38.73	0.46	1890.0	0.55	0.73	0.78
1900.0	3.38	3.41	0.04	36.28	0.58	1900.0	0.53	0.73	0.78
1990.0	3.29	3.29	0.01	27.47	0.65	1990.0	0.52	0.67	0.71
2050.0	3.30	3.29	0.01	29.44	0.69	2050.0	0.61	0.58	0.63
2060.0	3.31	3.31	0.01	28.99	0.67	2060.0	0.62	0.57	0.61
2070.0	3.32	3.32	0.00	27.80	0.68	2070.0	0.64	0.56	0.60
2080.0	3.32	3.32	0.00	26.70	0.72	2080.0	0.65	0.56	0.59
2090.0	3.31	3.30	0.01	26.13	0.75	2090.0	0.66	0.56	0.59
2100.0	3.30	3.28	0.02	26.25	0.73	2100.0	0.67	0.57	0.60
2110.0	3.31	3.29	0.02	27.18	0.69	2110.0	0.68	0.59	0.61
2120.0	3.35	3.33	0.01	29.08	0.69	2120.0	0.69	0.61	0.63
2130.0	3.40	3.39	0.01	32.33	0.70	2130.0	0.69	0.63	0.65
2140.0	3.45	3.44	0.02	38.01	0.71	2140.0	0.70	0.65	0.67
2150.0	3.49	3.47	0.02	52.91	0.69	2150.0	0.70	0.67	0.70
2160.0	3.50	3.48	0.02	44.27	0.62	2160.0	0.71	0.69	0.73
2170.0	3.47	3.46	0.01	38.50	0.60	2170.0	0.71	0.72	0.76
2180.0	3.44	3.45	0.00	35.53	0.63	2180.0	0.72	0.75	0.79
2190.0	3.44	3.46	0.02	32.91	0.71	2190.0	0.73	0.78	0.82
2200.0	3.48	3.50	0.02	30.50	0.90	2200.0	0.73	0.82	0.85

¹Total Loss = Insertion Loss + 3dB Splitter Loss

2 Way-0° Power Splitter/Combiner

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Typical Performance Curves



REV. X2

3ZB2CS-ED12265/2

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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