Engineering Development Model

Power Splitter/Combiner ZN6PD-ED6515A/2

6 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 : Z259

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C					
Parameter		**Min.**	**Typ.**	**Max.**	**Units**
Frequency		312		1884	MHz
Isolation	**312 - 1884 MHz**		28		dB
Insertion Loss Above 7.8 dB	**312 - 1884 MHz**		0.48		dB
Phase Unbalance	**312 - 1884 MHz**		1.192		deg.
Amplitude Unbalance	**312 - 1884 MHz**		0.205		dB
VSWR	**SUM Port**		1.38		(:1)
	OUT Ports		1.10		(: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
PORT 3	3
PORT 4	4
PORT 5	5
PORT 6	6

Functional Diagram

6 Way-0° Power Splitter/Combiner ZN6PD-ED6515A/2

Typical Performance Data

FREQ. (MHz)	TOTAL LOSS[1] (dB)			AMP. UNBAL. (dB)	ISOLATION (dB)		PHASE UNBAL. (deg.)
	S-1	S-3	S-5		1-2	3-4	
312	8.38	8.33	8.45	0.19	12.68	24.27	0.52
346	8.18	8.13	8.26	0.19	13.94	24.90	0.45
380	8.06	8.00	8.14	0.19	15.27	25.66	0.45
414	8.01	7.96	8.08	0.18	16.64	26.60	0.51
448	8.01	7.96	8.10	0.19	18.02	27.70	0.49
482	8.03	7.98	8.12	0.18	19.38	29.00	0.51
516	8.05	8.01	8.14	0.18	20.71	30.55	0.54
550	8.09	8.04	8.17	0.18	22.07	32.32	0.54
560	8.09	8.05	8.19	0.18	22.48	32.89	0.50
580	8.09	8.05	8.18	0.18	23.34	34.16	0.61
600	8.09	8.05	8.17	0.17	24.28	35.56	0.62
610	8.08	8.04	8.17	0.18	24.79	36.34	0.64
714	8.05	8.01	8.13	0.17	33.80	47.02	0.69
818	8.05	8.02	8.14	0.16	34.14	42.59	0.88
922	8.09	8.06	8.19	0.15	26.19	39.69	1.07
1026	8.14	8.11	8.24	0.13	23.67	40.07	1.08
1130	8.18	8.13	8.26	0.13	22.99	42.24	1.16
1234	8.25	8.20	8.32	0.12	23.35	45.96	1.15
1338	8.33	8.26	8.37	0.11	24.14	52.09	1.23
1442	8.36	8.29	8.40	0.13	24.23	55.35	1.42
1546	8.33	8.27	8.38	0.18	23.52	41.04	1.49
1650	8.31	8.26	8.38	0.24	22.42	33.53	1.66
1660	8.31	8.26	8.38	0.23	22.19	32.97	1.67
1680	8.33	8.28	8.40	0.25	21.63	31.96	1.74
1700	8.35	8.30	8.42	0.25	20.96	31.03	1.82
1710	8.36	8.32	8.43	0.25	20.58	30.58	1.72
1739	8.41	8.37	8.48	0.27	19.44	29.40	1.86
1768	8.50	8.46	8.55	0.29	18.27	28.36	2.00
1797	8.61	8.57	8.66	0.31	17.19	27.45	2.10
1826	8.74	8.71	8.78	0.31	16.24	26.62	2.20
1855	8.88	8.86	8.93	0.34	15.44	25.86	2.34
1884	9.02	9.01	9.05	0.35	14.78	25.14	2.48

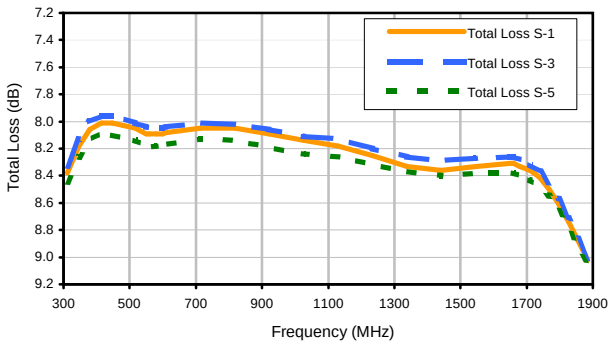
FREQ. (MHz)	VSWR (:1)		
	S	1	3
312	1.97	1.25	1.22
346	1.66	1.18	1.16
380	1.44	1.16	1.14
414	1.32	1.15	1.13
448	1.30	1.11	1.10
482	1.32	1.10	1.10
516	1.35	1.10	1.10
550	1.38	1.07	1.08
560	1.38	1.06	1.08
580	1.38	1.06	1.08
600	1.37	1.06	1.08
610	1.36	1.06	1.08
714	1.23	1.04	1.07
818	1.14	1.05	1.06
922	1.19	1.08	1.05
1026	1.27	1.08	1.04
1130	1.28	1.08	1.05
1234	1.21	1.11	1.08
1338	1.24	1.12	1.10
1442	1.29	1.08	1.07
1546	1.27	1.05	1.08
1650	1.09	1.05	1.08
1660	1.08	1.05	1.07
1680	1.10	1.08	1.07
1700	1.16	1.10	1.10
1710	1.20	1.10	1.11
1739	1.34	1.10	1.12
1768	1.48	1.10	1.10
1797	1.63	1.13	1.12
1826	1.78	1.14	1.15
1855	1.92	1.15	1.16
1884	2.04	1.18	1.17

[1] Total Loss = Insertion Loss + 7.8dB Splitter Loss

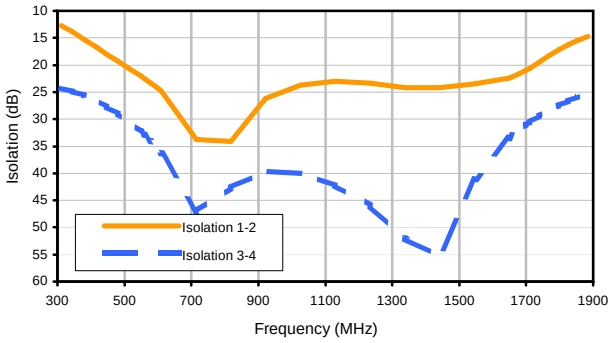
6 Way-0° Power Splitter/Combiner ZN6PD-ED6515A/2

Typical Performance Curves

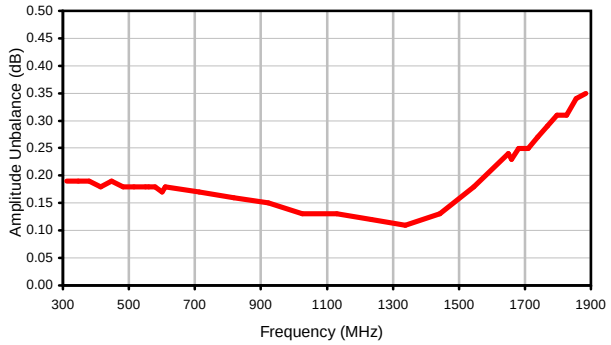
Total Loss



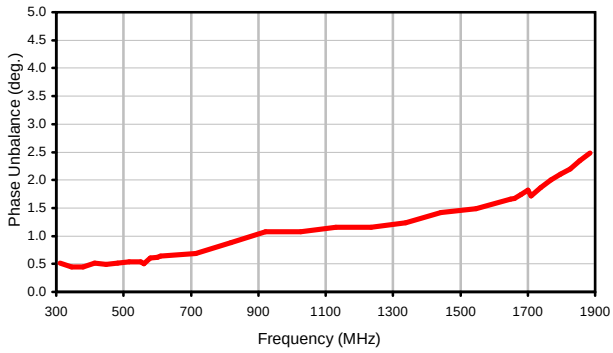
Isolation



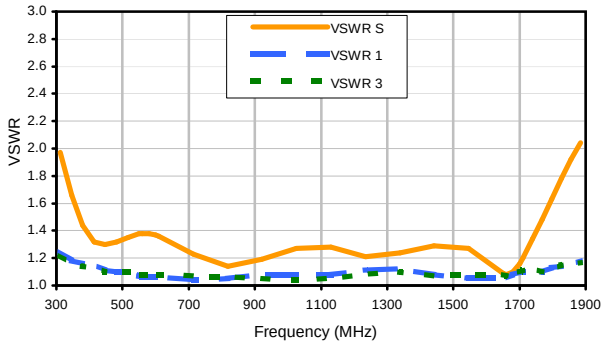
Amplitude Unbalance



Phase Unbalance



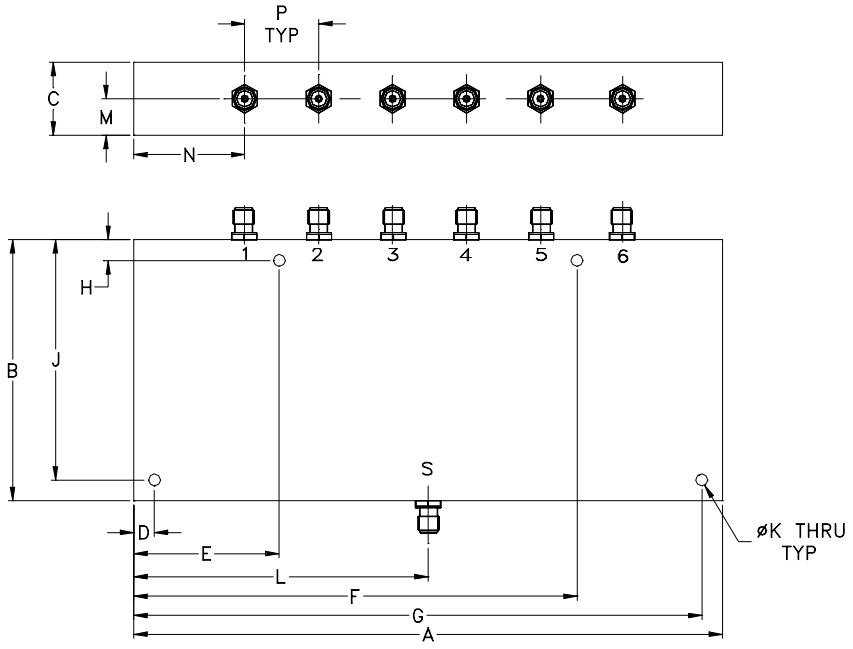
VSWR



Case Style Z

Z259

Outline Dimensions



CASE#	A	B	C	D	E	F	G	H	J	K	L	M	N
Z259	7.06 (179.32)	3.13 (79.50)	.88 (22.35)	.250 (6.35)	1.750 (44.45)	5.310 (134.87)	6.810 (172.97)	.250 (6.35)	2.875 (73.03)	.144 (3.66)	3.53 (89.66)	.44 (11.18)	1.31 (33.27)

CASE#	P	WT.GRAMS
Z259	.89 (22.61)	800

Dimensions are in inches (mm). Tolerances: 2 Pl. ± .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.

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