

Engineering Development Model

Power Splitter/Combiner

ZB4PD-ED13268/1

4 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 : Z54

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C					
Parameter		Min.	Typ.	Max.	Units
Frequency		2		700	MHz
Isolation	2-20 MHz		35		dB
	20-350 MHz		35		dB
	350-700 MHz		31		dB
Insertion Loss Above 6.0 dB	2-20 MHz		0.30		dB
	20-350 MHz		0.40		dB
	350-700 MHz		0.80		dB
Phase Unbalance	2-20 MHz		0.05		deg.
	20-350 MHz		0.45		deg.
	350-700 MHz		1.10		deg.
Amplitude Unbalance	2-20 MHz		0.01		dB
	20-350 MHz		0.05		dB
	350-700 MHz		0.30		dB
VSWR	SUM Port		1.10		(:1)
	OUT Ports		1.15		(:1)

MAXIMUM RATINGS	
Operating Temperature	-55°C to 60°C
Storage Temperature	-55°C to 100°C

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

Functional Diagram



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IF/RF MICROWAVE COMPONENTS



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Typical Performance Data

FREQ.	TOTAL LOSS ¹				AMP UNBAL.	ISOLATION			PHASE UNBAL.	FREQ.	VSWR				
(MHz)	(dB)				(dB)	(dB)			(Deg)	(MHz)	(:1)				
	S1	S2	S3	S4		1-2	2-3	3-4			S	1	2	3	4
2.0	6.34	6.34	6.34	6.34	0.00	35.04	29.47	34.73	0.02	2.0	1.20	1.41	1.41	1.40	1.41
3.0	6.34	6.34	6.34	6.34	0.01	36.13	31.20	35.54	0.01	3.0	1.15	1.31	1.31	1.31	1.32
4.0	6.32	6.32	6.32	6.32	0.01	36.69	32.13	35.94	0.01	4.0	1.13	1.27	1.27	1.27	1.27
5.0	6.31	6.31	6.31	6.31	0.00	37.05	32.78	36.25	0.00	5.0	1.11	1.24	1.24	1.24	1.25
10.0	6.26	6.26	6.26	6.25	0.01	38.20	34.47	37.34	0.04	10.0	1.08	1.18	1.18	1.18	1.18
30.0	6.22	6.22	6.22	6.22	0.01	39.94	37.18	39.20	0.07	30.0	1.05	1.12	1.12	1.11	1.12
50.0	6.23	6.24	6.24	6.23	0.01	39.45	38.03	38.79	0.11	50.0	1.04	1.10	1.10	1.09	1.10
70.0	6.24	6.25	6.24	6.24	0.01	38.47	38.26	37.81	0.17	70.0	1.04	1.09	1.09	1.08	1.09
90.0	6.25	6.26	6.25	6.24	0.01	37.45	38.16	36.73	0.22	90.0	1.03	1.08	1.08	1.07	1.08
100.0	6.26	6.27	6.26	6.25	0.01	36.96	38.06	36.21	0.25	100.0	1.03	1.08	1.08	1.07	1.08
125.0	6.29	6.30	6.29	6.28	0.02	35.87	37.76	35.05	0.28	125.0	1.02	1.07	1.07	1.06	1.07
150.0	6.29	6.31	6.29	6.28	0.02	34.93	37.34	34.04	0.40	150.0	1.02	1.06	1.06	1.05	1.06
175.0	6.32	6.33	6.33	6.31	0.02	34.16	36.96	33.24	0.41	175.0	1.01	1.06	1.06	1.05	1.06
200.0	6.34	6.36	6.34	6.32	0.04	33.55	36.58	32.55	0.47	200.0	1.01	1.05	1.05	1.04	1.05
225.0	6.35	6.37	6.36	6.33	0.04	33.03	36.21	32.00	0.55	225.0	1.01	1.05	1.05	1.04	1.05
250.0	6.38	6.41	6.39	6.36	0.05	32.68	35.94	31.57	0.58	250.0	1.02	1.05	1.04	1.04	1.04
275.0	6.40	6.43	6.40	6.37	0.06	32.41	35.65	31.23	0.67	275.0	1.03	1.05	1.05	1.04	1.05
300.0	6.43	6.46	6.45	6.39	0.07	32.27	35.43	31.01	0.70	300.0	1.03	1.06	1.05	1.05	1.05
325.0	6.45	6.50	6.45	6.41	0.09	32.24	35.29	30.86	0.74	325.0	1.04	1.07	1.06	1.06	1.05
350.0	6.47	6.52	6.49	6.42	0.10	32.29	35.14	30.75	0.84	350.0	1.05	1.07	1.06	1.06	1.06
375.0	6.51	6.56	6.53	6.45	0.11	32.48	35.10	30.73	0.83	375.0	1.06	1.08	1.07	1.07	1.06
400.0	6.54	6.60	6.53	6.46	0.14	32.73	35.09	30.68	0.93	400.0	1.07	1.09	1.08	1.08	1.07
420.0	6.56	6.62	6.58	6.48	0.14	33.00	35.11	30.66	0.97	420.0	1.08	1.10	1.09	1.09	1.08
435.0	6.60	6.66	6.61	6.50	0.16	33.23	35.18	30.63	0.93	435.0	1.08	1.10	1.09	1.09	1.08
450.0	6.61	6.69	6.61	6.51	0.18	33.47	35.27	30.54	0.94	450.0	1.09	1.11	1.10	1.10	1.08
465.0	6.63	6.71	6.62	6.51	0.20	33.66	35.35	30.38	1.06	465.0	1.09	1.11	1.10	1.10	1.09
480.0	6.65	6.73	6.66	6.52	0.20	33.84	35.45	30.20	1.15	480.0	1.10	1.12	1.10	1.10	1.09
500.0	6.70	6.78	6.71	6.56	0.22	33.96	35.66	29.87	1.02	500.0	1.10	1.12	1.11	1.11	1.09
520.0	6.73	6.83	6.71	6.57	0.26	33.84	35.94	29.38	1.10	520.0	1.10	1.13	1.11	1.11	1.09
540.0	6.77	6.86	6.75	6.58	0.28	33.40	36.19	28.77	1.32	540.0	1.11	1.13	1.12	1.11	1.09
560.0	6.83	6.92	6.81	6.62	0.30	32.66	36.53	28.07	1.17	560.0	1.11	1.13	1.12	1.11	1.09
580.0	6.87	6.99	6.82	6.64	0.35	31.61	36.98	27.24	1.17	580.0	1.10	1.14	1.12	1.11	1.09
600.0	6.91	7.04	6.86	6.65	0.38	30.35	37.39	26.36	1.44	600.0	1.10	1.14	1.12	1.11	1.09
650.0	7.08	7.23	6.97	6.74	0.49	26.85	38.36	23.99	1.23	650.0	1.07	1.14	1.12	1.1	1.07
700.0	7.33	7.49	7.16	6.87	0.61	23.27	36.99	21.54	1.22	700.0	1.06	1.13	1.11	1.09	1.05

¹Total Loss = Insertion Loss + 6dB Splitter Loss



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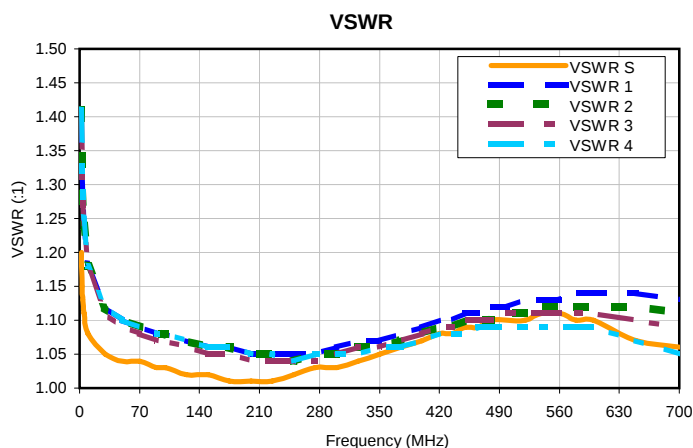
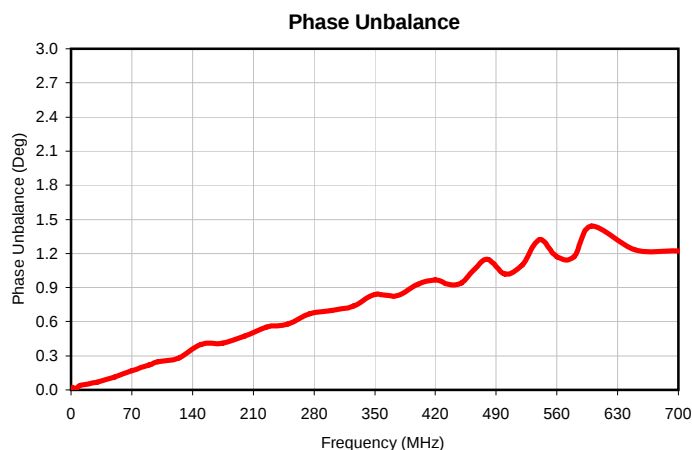
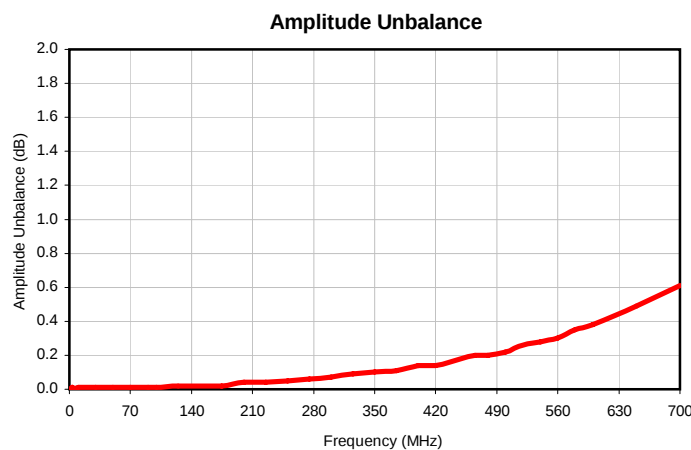
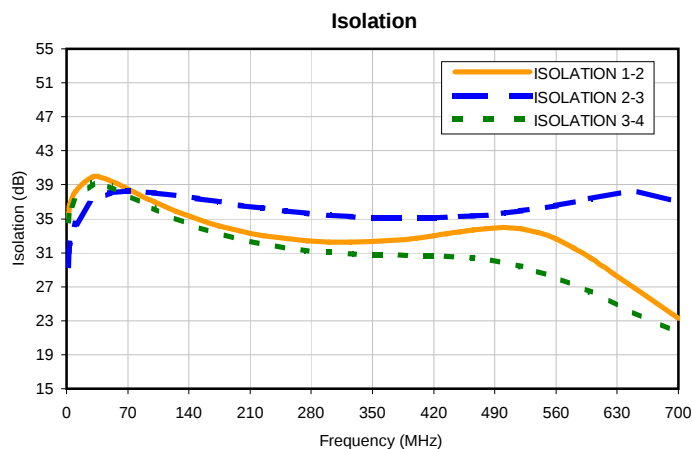
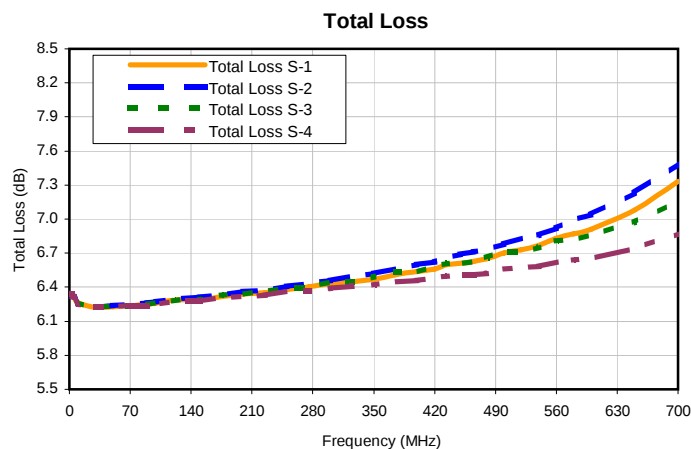
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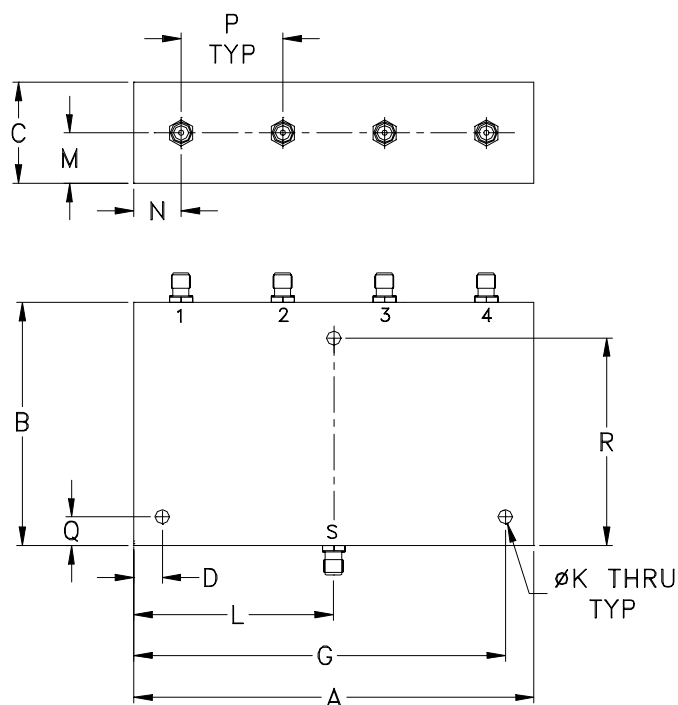
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Typical Performance Curves



Outline Dimensions



CASE#	A	B	C	D	E	F	G	H	J	K	L	M	N
Z54	3.50 (88.90)	2.13 (54.10)	.88 (22.35)	.250 (6.35)	--	--	3.250 (82.55)	--	--	.125 (3.17)	1.750 (44.45)	.44 (11.18)	.415 (10.54)

CASE#	P	Q	R	WT.GRAMS
Z54	.89 (22.61)	.250 (6.35)	1.813 (46.05)	250

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

Notes:

- Case material: Aluminum alloy.
- Case finish:
For RoHS Case Styles: Clear chemical conversion coating, non-chrome or trivalent chrome based.



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