

Power Splitter/Combiner

ZB4PD-1750-75+

4 Way-0° 75Ω 875 to 1750 MHz

Maximum Ratings

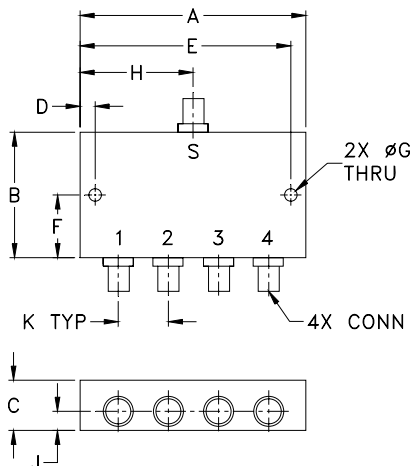
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.750W max.
DC Current	800 mA (200mA for each port)

Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2
PORT 3	3
PORT 4	4

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	
3.50	2.13	.88	.150	3.350	1.06	
88.90	54.10	22.35	3.81	85.09	26.92	
G	H	J	K			wt
.125	1.75	.44	.89			grams
3.18	44.45	11.18	22.61			260

Features

- wideband, 875 to 1750MHz
- high isolation, 30 dB typ.
- rugged, shielded case
- up to 10W power input as splitters

Applications

- cellular
- GPS



Generic photo used for illustration purposes only

CASE STYLE: UU188

Connectors	Model
BNC	ZB4PD-1750-75+

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

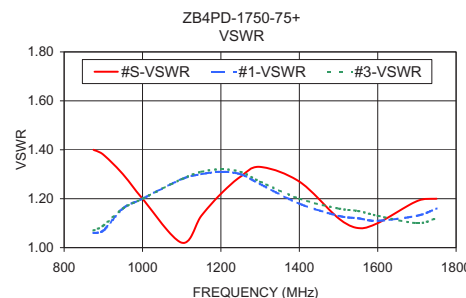
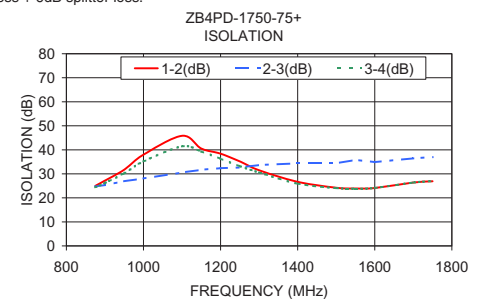
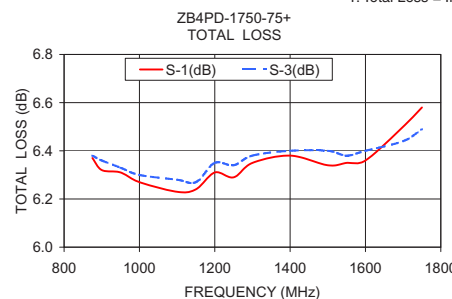
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 6.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (∶1)			
	Typ.	Min.	Typ.	Max.			S		OUT	
f _c -f _u					Max.	Max.	Typ.	Max.	Typ.	Max.
875-1750	30	20	0.4	0.8	3	0.4	1.08	1.50	1.25	1.50

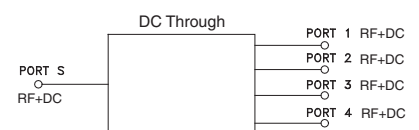
Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)				Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4		1-2	2-3	3-4						
875.00	6.37	6.36	6.38	6.34	0.04	24.97	24.71	24.41	1.48	1.40	1.06	1.05	1.07	1.06
900.00	6.32	6.33	6.36	6.32	0.04	27.17	25.37	26.22	1.63	1.38	1.07	1.07	1.09	1.08
950.00	6.31	6.34	6.33	6.31	0.03	31.72	26.93	30.20	1.35	1.30	1.16	1.15	1.16	1.15
1000.00	6.27	6.26	6.30	6.25	0.05	38.00	28.07	35.19	1.54	1.20	1.20	1.19	1.20	1.19
1100.00	6.23	6.24	6.28	6.23	0.05	45.83	30.58	41.43	1.62	1.02	1.28	1.28	1.28	1.27
1150.00	6.24	6.25	6.27	6.21	0.06	40.51	31.69	39.27	1.69	1.13	1.30	1.31	1.31	1.30
1200.00	6.31	6.32	6.35	6.28	0.07	38.40	32.38	36.29	1.91	1.22	1.31	1.32	1.32	1.31
1250.00	6.29	6.32	6.34	6.28	0.06	35.18	32.62	33.18	2.01	1.29	1.30	1.31	1.31	1.30
1300.00	6.35	6.38	6.38	6.36	0.03	31.50	33.70	30.58	2.03	1.33	1.26	1.27	1.27	1.26
1400.00	6.38	6.37	6.40	6.35	0.05	26.67	34.37	25.92	1.97	1.27	1.18	1.18	1.20	1.18
1500.00	6.34	6.35	6.40	6.36	0.05	24.22	34.36	24.08	2.23	1.12	1.13	1.13	1.16	1.15
1550.00	6.35	6.31	6.38	6.37	0.07	23.89	35.81	23.86	2.34	1.08	1.12	1.13	1.15	1.13
1600.00	6.36	6.31	6.40	6.36	0.09	24.11	34.86	24.14	2.45	1.10	1.11	1.11	1.13	1.12
1700.00	6.50	6.41	6.44	6.48	0.09	26.37	36.47	26.39	2.79	1.19	1.13	1.12	1.10	1.10
1750.00	6.58	6.45	6.49	6.56	0.13	26.93	36.98	26.99	2.66	1.20	1.16	1.14	1.12	1.13

1. Total Loss = Insertion Loss + 6dB splitter loss.



electrical schematic



Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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