

Coaxial

Power Splitter/Combiner

ZB4PD1-32-75+

4 Way-0° 75Ω 0.25 to 300 MHz

Maximum Ratings

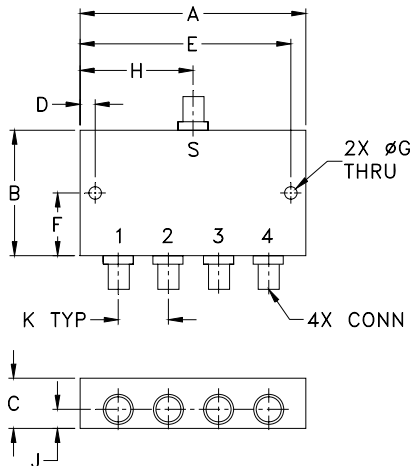
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.250W max.

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, 0.25 to 300 MHz
- high isolation, 36 dB typ.
- excellent amplitude unbalance, 0.05 dB typ.
- excellent phase unbalance, 0.5 deg. typ.
- rugged, shielded case

Applications

- VHF/UHF
- radio communication



CASE STYLE: UU188

Connectors	Model
BNC	ZB4PD1-32-75+

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

Electrical Specifications

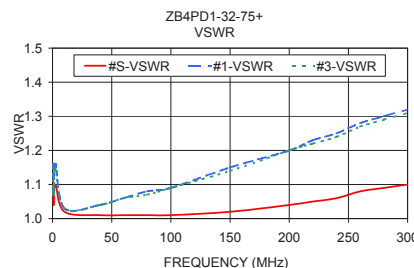
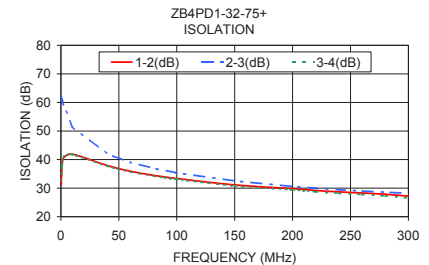
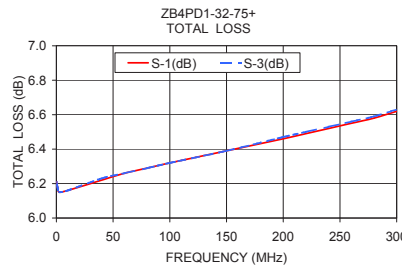
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 6.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
f _L -f _U																		
0.25-300	34	20	36	25	28	22	0.2	0.6	0.3	0.6	0.5	1.0	1	2	3	0.15	0.20	0.25

L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U = upper range [f_U/2 to f_U]

Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)				Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR	VSWR	VSWR	VSWR	VSWR
	S-1	S-2	S-3	S-4		1-2	2-3	3-4		S	1	2	3	4
0.25	6.21	6.21	6.21	6.20	0.01	31.09	62.13	32.62	0.02	1.10	1.16	1.16	1.15	1.15
1.00	6.18	6.17	6.18	6.17	0.01	37.39	61.06	37.94	0.03	1.04	1.07	1.07	1.07	1.07
2.50	6.15	6.14	6.15	6.14	0.01	40.66	58.82	41.03	0.02	1.10	1.16	1.16	1.15	1.15
10.00	6.16	6.15	6.16	6.16	0.01	41.88	51.47	41.75	0.02	1.02	1.03	1.03	1.03	1.03
40.00	6.22	6.22	6.23	6.22	0.01	37.93	41.96	37.69	0.09	1.01	1.04	1.04	1.04	1.04
60.00	6.26	6.25	6.26	6.25	0.01	35.92	39.03	35.69	0.13	1.01	1.06	1.06	1.06	1.06
80.00	6.29	6.28	6.29	6.28	0.01	34.47	36.97	34.22	0.17	1.01	1.08	1.07	1.07	1.07
100.00	6.32	6.31	6.32	6.31	0.01	33.37	35.36	33.09	0.21	1.01	1.09	1.09	1.09	1.09
150.00	6.39	6.38	6.39	6.38	0.01	31.11	32.52	30.80	0.31	1.02	1.15	1.14	1.14	1.14
200.00	6.46	6.46	6.47	6.45	0.02	29.83	30.59	29.42	0.42	1.04	1.20	1.20	1.20	1.20
220.00	6.49	6.49	6.50	6.48	0.02	29.19	29.99	28.74	0.46	1.05	1.23	1.22	1.22	1.22
240.00	6.52	6.52	6.53	6.50	0.02	28.69	29.45	28.20	0.52	1.06	1.25	1.24	1.24	1.24
260.00	6.55	6.55	6.56	6.53	0.03	28.31	29.00	27.76	0.55	1.08	1.28	1.26	1.27	1.26
280.00	6.58	6.58	6.59	6.56	0.03	27.84	28.58	27.24	0.56	1.09	1.30	1.29	1.29	1.28
300.00	6.62	6.62	6.63	6.60	0.03	27.21	28.21	26.56	0.60	1.10	1.32	1.31	1.31	1.31

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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