Coaxial

Power Splitter/Combiner

ZB4PD-42+
ZB4PD-42

4 Way-0° 50Ω 1700 to 4200 MHz

SMA version shown

CASE STYLE: Z54

Connectors	Model	Price	Qty.
SMA	ZB4PD-42-S(+)	$99.95	(1-9)
N-TYPE	ZB4PD-42-N(+)	$99.95	(1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

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	0.375W max.

Coaxial Connections

SUMPORT	S
PORT 1	1
PORT 2	2
PORT 3	3
PORT 4	4

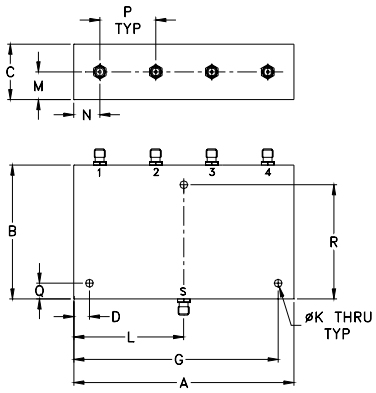
Features

- wideband, 1700 to 4200 MHz
- up to 10W power input as splitters
- rugged, shielded case

Applications

- MMDS
- ISM
- receivers/transmitters

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	G	K
3.50	2.13	.88	.250	3.250	.125
88.90	54.10	22.35	6.35	82.55	3.18

L	M	N	P	Q	R	wt
1.750	.44	.415	.89	.250	1.813	grams
44.45	11.18	10.54	22.61	6.35	46.05	250

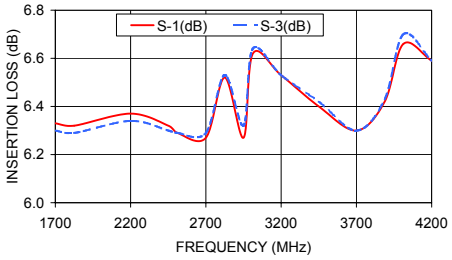
Splitter Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 6.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
f_L-f_U	Typ.	Min	Typ.	Max.	Max.	Max.
1700-4200	23	16	0.5	1.4	8	0.8

Typical Performance Data

Freq. (MHz)	Insertion Loss (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						
1700.00	6.33	6.32	6.30	6.31	0.03	26.23	29.11	26.20	1.52	1.32	1.16	1.15	1.16	1.17
1825.00	6.32	6.30	6.29	6.30	0.03	27.10	33.40	26.88	1.59	1.17	1.09	1.08	1.09	1.10
2200.00	6.37	6.37	6.34	6.34	0.03	24.84	35.39	24.69	1.83	1.18	1.06	1.08	1.09	1.07
2450.00	6.32	6.34	6.30	6.29	0.05	24.41	29.95	24.35	2.05	1.06	1.08	1.07	1.08	1.07
2512.50	6.29	6.31	6.29	6.26	0.06	24.30	29.31	24.29	2.09	1.07	1.04	1.03	1.05	1.04
2700.00	6.27	6.30	6.29	6.27	0.03	24.00	28.16	23.93	2.16	1.16	1.08	1.07	1.05	1.06
2825.00	6.52	6.58	6.53	6.50	0.08	24.39	28.08	24.21	2.18	1.28	1.15	1.12	1.13	1.14
2950.00	6.27	6.34	6.32	6.25	0.09	25.07	28.09	24.77	2.20	1.20	1.04	1.04	1.03	1.04
3012.50	6.62	6.69	6.64	6.58	0.11	26.05	28.54	25.65	2.40	1.29	1.11	1.08	1.10	1.12
3200.00	6.53	6.63	6.53	6.47	0.16	28.45	29.64	27.75	2.55	1.13	1.02	1.05	1.01	1.03
3450.00	6.40	6.49	6.42	6.33	0.16	27.04	31.63	26.53	2.66	1.12	1.16	1.22	1.16	1.13
3700.00	6.30	6.38	6.30	6.23	0.16	25.50	31.70	25.08	2.61	1.21	1.21	1.26	1.24	1.21
3887.50	6.42	6.50	6.43	6.34	0.16	27.26	29.70	26.73	2.65	1.13	1.18	1.20	1.23	1.21
4012.50	6.66	6.79	6.70	6.59	0.20	30.24	28.50	29.66	3.11	1.19	1.06	1.09	1.12	1.10
4200.00	6.59	6.73	6.59	6.49	0.24	33.43	26.18	33.52	3.46	1.25	1.09	1.07	1.11	1.10

ZB4PD-42
INSERTION LOSS



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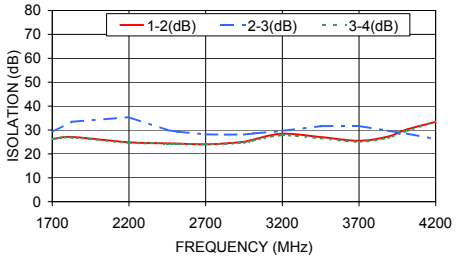
ISOLATION



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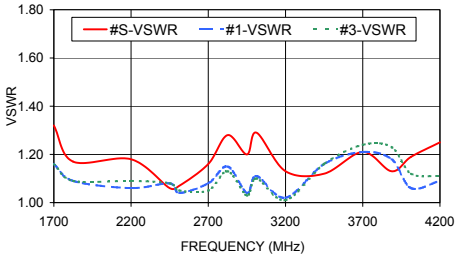
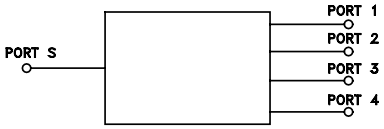
VSWR



electrical schematic