

Power Splitter/Combiner

4 Way-0° 50Ω 1700 to 4200 MHz

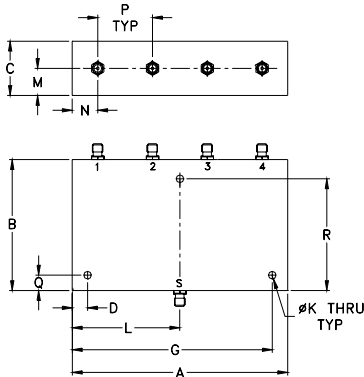
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.375W max.
DC Current	1.0 A (250mA 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	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

Features

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

Applications

- MMDS
- ISM
- receivers/transmitters

ZB4PD-42+



SMA version shown
CASE STYLE: Z54

Connectors	Model
SMA	ZB4PD-42-S+
N-TYPE	ZB4PD-42-N+

+RoHS Compliant

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

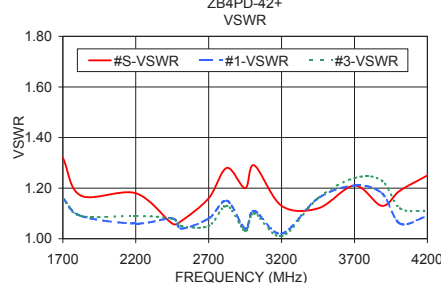
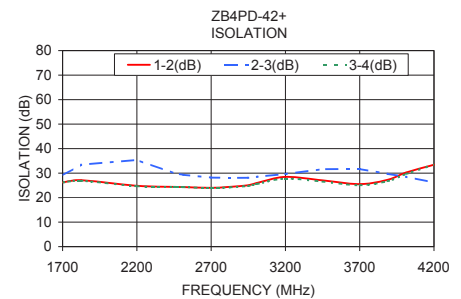
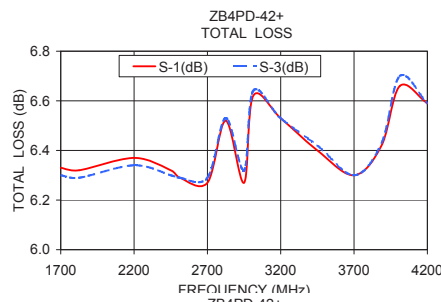
Electrical Specifications

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

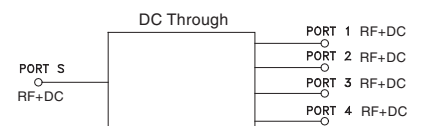
Typical Performance Data

Freq. (MHz)	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						
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

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



electrical schematic



Notes

- A. 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.
B. 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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