DC Pass

Power Splitter/Combiner

ZB4PD-4+

4 Way-0° 50Ω 3700 to 4200 MHz

SMA version shown

CASE STYLE: Z54

Connectors	Model
SMA	ZB4PD-4-S(+)
N-TYPE	ZB4PD-4-N+

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	1.2 A (300mA 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

Features

- wideband, 3700 to 4200 MHz
- up to 10W power input as splitters
- rugged, shielded case

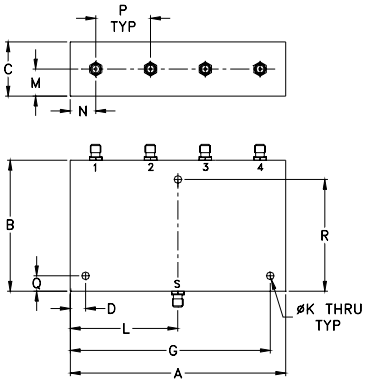
Applications

- wireless
- communication systems
- satellite communications

+RoHS Compliant

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

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

Electrical Specifications

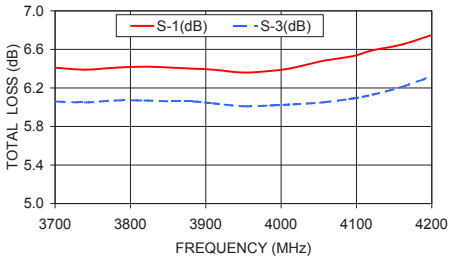
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 6.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
f_L-f_U	Typ.	Min.	Typ.	Max.	Max.	Max.
3700-4200	24	15	0.6	1.1	8	0.8

Typical Performance Data

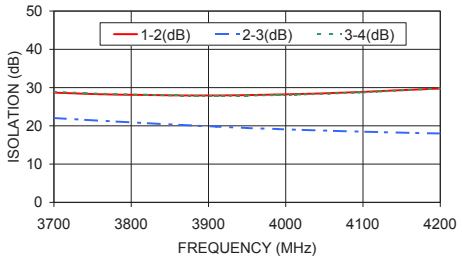
Freq. (MHz)	Total Loss[1] (dB)				Amp. Unbal. (dB)	Isolation (dB)			VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4		1-2	2-3	3-4					
3700.00	6.41	6.16	6.06	6.43	0.37	28.68	22.06	28.90	1.34	1.10	1.07	1.04	1.11
3740.00	6.39	6.16	6.05	6.42	0.37	28.40	21.57	28.54	1.32	1.09	1.07	1.05	1.11
3778.80	6.41	6.17	6.07	6.45	0.38	28.18	21.13	28.28	1.30	1.08	1.07	1.06	1.10
3818.80	6.42	6.17	6.07	6.47	0.40	28.07	20.72	28.12	1.30	1.07	1.07	1.06	1.09
3857.50	6.41	6.17	6.06	6.47	0.41	27.97	20.30	27.95	1.31	1.06	1.07	1.06	1.09
3883.80	6.40	6.17	6.06	6.46	0.40	27.95	20.05	27.90	1.33	1.05	1.06	1.06	1.08
3910.00	6.39	6.16	6.04	6.44	0.40	27.95	19.80	27.88	1.35	1.05	1.06	1.06	1.08
3950.00	6.36	6.13	6.01	6.41	0.40	28.02	19.44	27.93	1.38	1.05	1.06	1.05	1.09
3990.00	6.38	6.13	6.02	6.43	0.41	28.19	19.16	28.05	1.42	1.04	1.05	1.04	1.09
4016.30	6.41	6.15	6.03	6.45	0.42	28.31	18.96	28.18	1.45	1.05	1.06	1.03	1.10
4055.00	6.48	6.17	6.05	6.51	0.46	28.55	18.72	28.42	1.50	1.06	1.07	1.02	1.11
4095.00	6.53	6.22	6.09	6.54	0.45	28.85	18.49	28.74	1.55	1.07	1.09	1.02	1.12
4121.30	6.59	6.27	6.13	6.58	0.46	29.08	18.36	28.97	1.58	1.08	1.10	1.03	1.13
4160.00	6.65	6.35	6.21	6.64	0.44	29.42	18.17	29.37	1.62	1.09	1.12	1.05	1.14
4200.00	6.75	6.46	6.32	6.71	0.43	29.76	18.00	29.78	1.66	1.11	1.14	1.07	1.15

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

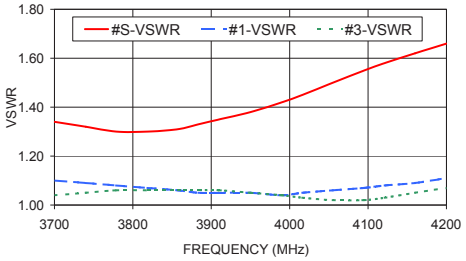
ZB4PD-4+
TOTAL LOSS



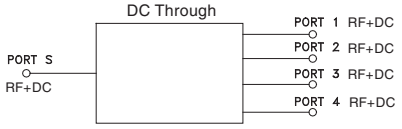
ZB4PD-4+
ISOLATION



ZB4PD-4+
VSWR



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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