DC Pass

Power Splitter/Combiner

ZB4PD-6.4+

4 Way-0° 50Ω 5400 to 6800 MHz

Generic photo used for illustration purposes only

CASE STYLE: UU188

Connectors	Model
SMA	ZB4PD-6.4-S+

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, 5400 to 6800 MHz
- good isolation, 25 dB typ.
- rugged, shielded case
- excellent output VSWR, 1.15:1 typ.

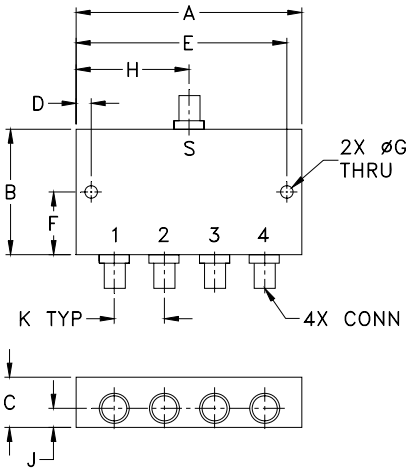
Applications

- satellite communications
- receivers/transmitters

+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	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

Electrical Specifications

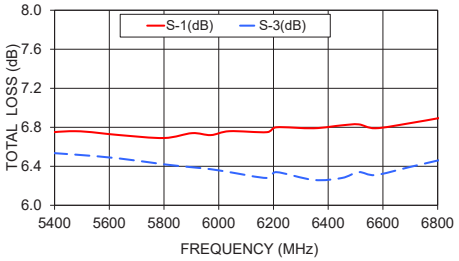
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 6.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
							S		OUT	
f_L-f_U	Typ.	Min.	Typ.	Max.	Max.	Max.	Typ.	Max.	Typ.	Max.
5400-6800	25	18	0.6	1.2	9	0.9	1.15	1.30	1.10	1.30

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					
5312.50	6.73	6.64	6.55	6.53	0.20	22.86	26.16	24.41	1.26	1.14	1.12	1.17	1.12
5475.00	6.76	6.58	6.52	6.50	0.26	24.26	28.06	25.30	1.23	1.14	1.12	1.19	1.13
5637.50	6.72	6.53	6.48	6.48	0.24	26.51	29.21	26.33	1.20	1.14	1.12	1.19	1.12
5800.00	6.69	6.45	6.42	6.44	0.28	29.55	30.79	27.47	1.19	1.12	1.10	1.17	1.10
5902.63	6.74	6.45	6.39	6.44	0.35	31.71	32.18	28.27	1.16	1.12	1.09	1.15	1.10
5971.05	6.72	6.42	6.37	6.43	0.35	32.93	33.03	28.65	1.15	1.12	1.09	1.15	1.10
6039.47	6.76	6.41	6.34	6.40	0.42	33.89	34.16	28.96	1.13	1.12	1.09	1.14	1.09
6176.32	6.75	6.39	6.28	6.38	0.47	33.17	36.16	28.20	1.09	1.11	1.08	1.12	1.09
6210.53	6.80	6.42	6.34	6.41	0.46	32.69	36.62	27.71	1.08	1.11	1.08	1.12	1.08
6347.37	6.79	6.33	6.26	6.38	0.52	28.95	37.17	26.09	1.04	1.10	1.06	1.10	1.08
6450.00	6.82	6.35	6.28	6.42	0.54	26.46	36.23	24.71	1.01	1.10	1.06	1.08	1.07
6511.11	6.83	6.34	6.34	6.45	0.49	25.09	35.65	23.99	1.01	1.09	1.05	1.08	1.08
6572.22	6.79	6.29	6.31	6.44	0.50	23.87	35.04	23.44	1.03	1.09	1.05	1.07	1.08
6694.44	6.84	6.31	6.39	6.52	0.54	21.96	33.79	22.45	1.05	1.10	1.05	1.06	1.09
6816.67	6.90	6.35	6.47	6.59	0.55	20.61	33.02	22.00	1.07	1.11	1.06	1.06	1.10

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

ZB4PD-6.4-S+
TOTAL LOSS



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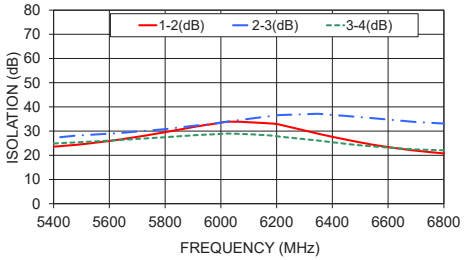
ISOLATION



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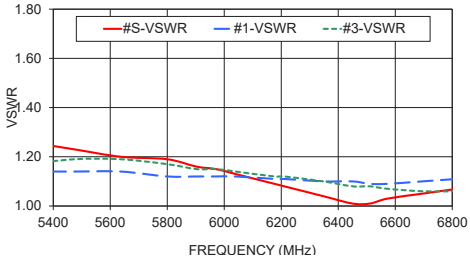
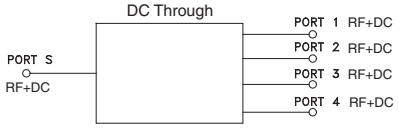
VSWR



electrical schematic



Notes

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