DC Pass

Power Splitter/Combiner

ZA3PD-4+

3 Way-0° 50Ω 2000 to 4200 MHz

SMA version shown

CASE STYLE: CC51

Connectors	Model
SMA	ZA3PD-4-S+
N-TYPE	ZA3PD-4-N+

+RoHS Compliant

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.
DC Current	900 mA (300 mA 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

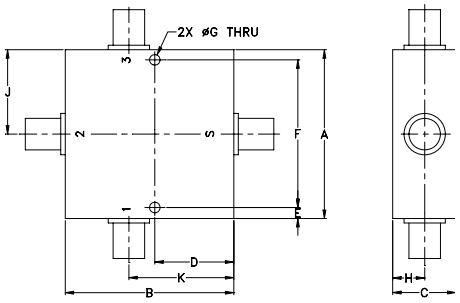
Features

- very wideband, 2000 to 4200 MHz
- low insertion loss, 0.7 dB typ.
- up to 10W power input as splitter
- rugged, shielded

Applications

- ISM
- satellite communication
- MMDS
- instrumentation

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F
2.00	2.00	.75	.938	.13	1.750
50.80	50.80	19.05	23.83	3.30	44.45

G	H	J	K		wt
.125	.38	1.00	1.25		grams
3.18	9.65	25.40	31.75		200.0

Electrical Specifications

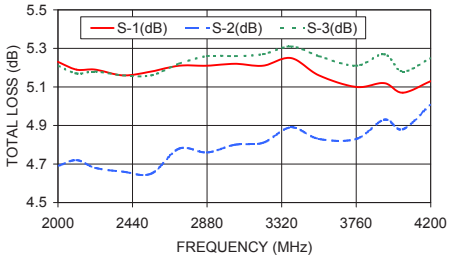
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 4.8 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
f_L-f_U	Typ.	Min.	Typ.	Max.	Max.	Max.
2000-4200	18	14	0.7	1.0	—	0.9

Typical Performance Data

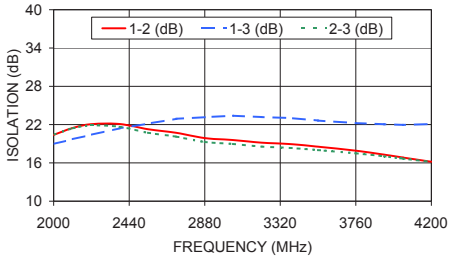
Freq. (MHz)	Total Loss[1] (dB)			Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3
	S-1	S-2	S-3		1-2	1-3	2-3					
2000.00	5.23	4.69	5.21	0.54	20.39	18.97	20.41	3.49	1.32	1.18	1.67	1.21
2110.00	5.19	4.72	5.17	0.47	21.47	19.71	21.42	3.81	1.25	1.18	1.64	1.20
2220.00	5.19	4.68	5.18	0.50	22.07	20.40	21.86	4.23	1.21	1.17	1.60	1.20
2385.00	5.16	4.66	5.16	0.50	22.09	21.43	21.66	3.68	1.18	1.16	1.54	1.18
2550.00	5.18	4.65	5.16	0.53	21.28	22.15	20.72	4.52	1.19	1.16	1.49	1.16
2715.00	5.21	4.78	5.22	0.44	20.71	22.92	20.11	3.95	1.23	1.16	1.44	1.15
2880.00	5.21	4.76	5.26	0.50	19.89	23.16	19.29	4.03	1.24	1.17	1.40	1.16
3045.00	5.22	4.80	5.26	0.47	19.58	23.39	18.97	3.95	1.25	1.20	1.37	1.18
3210.00	5.21	4.81	5.27	0.46	19.17	23.19	18.56	3.82	1.24	1.24	1.34	1.20
3375.00	5.25	4.89	5.31	0.43	18.95	23.03	18.35	3.97	1.21	1.28	1.33	1.22
3540.00	5.16	4.83	5.26	0.43	18.54	22.64	18.00	3.78	1.20	1.33	1.32	1.25
3760.00	5.10	4.83	5.21	0.38	17.91	22.24	17.50	3.99	1.19	1.34	1.29	1.24
3925.00	5.12	4.93	5.27	0.34	17.30	22.06	17.03	3.71	1.22	1.34	1.27	1.21
4035.00	5.07	4.88	5.18	0.30	16.83	21.96	16.67	3.68	1.24	1.32	1.25	1.18
4200.00	5.13	5.01	5.25	0.24	16.18	22.10	16.17	3.58	1.34	1.27	1.21	1.13

1. Total Loss = Insertion Loss + 4.8dB splitter loss.

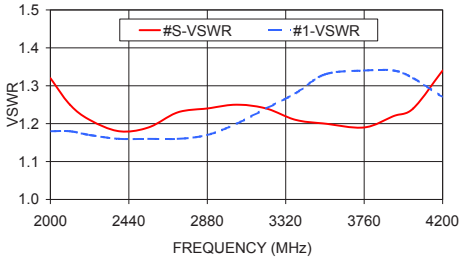
ZA3PD-4
TOTAL LOSS



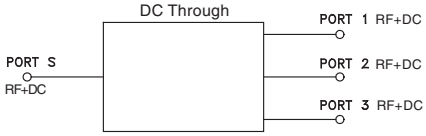
ZA3PD-4
ISOLATION



ZA3PD-4
VSWR



electrical schematic



Notes

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