

Power Splitter/Combiner

ZB3PD-2400W-S+

3 Way-0° 50Ω 550 to 2450 MHz



Generic photo used for illustration purposes only

CASE STYLE: UU182

Connectors	Model
SMA	ZB3PD-2400W-S+

+RoHS Compliant

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

Maximum Ratings

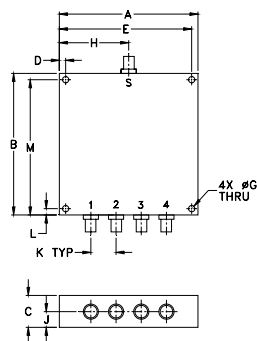
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.250W max.
DC Current	900 mA (300 mA for each port)

Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2
PORT 3	4

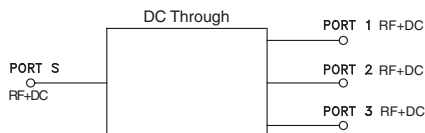
Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
2.75	2.80	.63	.125	2.625	-	.125
69.85	71.12	16.00	3.18	66.68	-	3.18
H	J	K	L	M	wt	
1.38	.31	.500	.125	2.675	grams	
35.05	7.87	12.70	3.18	67.95	140	

electrical schematic



Features

- wideband, 550 to 2450 MHz
- good isolation, 25 dB typ.
- excellent input VSWR, 1.3 typ.
- excellent output VSWR, 1.1 typ.

Applications

- cellular
- PCN
- instrumentation
- L-Band

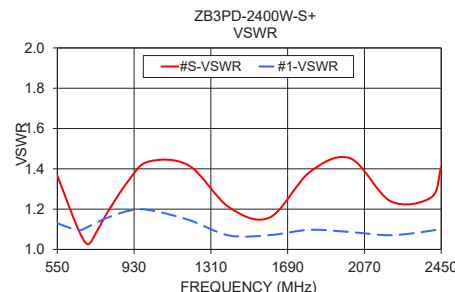
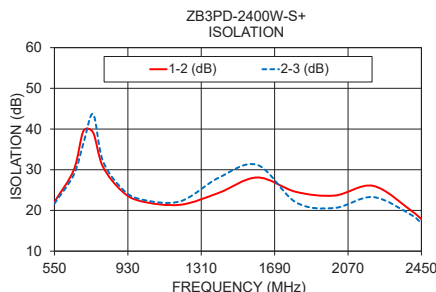
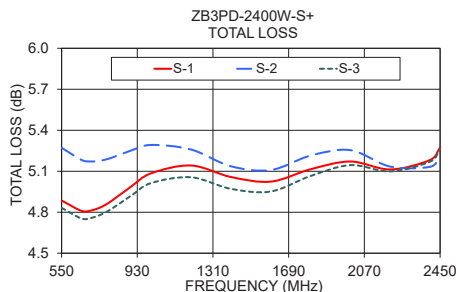
Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		550		2450	MHz
Insertion Loss Above 4.8 dB	700 - 2400	—	0.5	1.0	dB
	550 - 2450	—	0.8	1.2	
Isolation	700 - 2400	17	20	—	dB
	550 - 2450	15	18	—	
Phase Unbalance	550 - 2450	—	3	8	Degree
Amplitude Unbalance	550 - 2450	—	0.5	0.9	dB
VSWR (Port S)	550 - 2450	—	1.4	—	:1
VSWR (Port 1-3)	550 - 2450	—	1.25	—	:1

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	2-3					
550.00	4.89	5.27	4.83	0.44	22.10	21.67	1.00	1.37	1.13	1.25	1.14
650.00	4.81	5.18	4.75	0.43	29.94	28.75	0.80	1.11	1.10	1.17	1.11
700.00	4.81	5.17	4.76	0.41	39.51	36.48	0.70	1.03	1.11	1.15	1.13
750.00	4.84	5.18	4.78	0.39	39.14	43.67	0.62	1.10	1.14	1.14	1.15
800.00	4.88	5.20	4.82	0.37	30.83	32.28	0.59	1.19	1.16	1.14	1.17
900.00	4.99	5.25	4.92	0.33	24.72	25.33	0.59	1.34	1.19	1.15	1.20
1000.00	5.09	5.29	5.01	0.28	22.25	22.71	0.72	1.44	1.20	1.15	1.20
1200.00	5.14	5.26	5.06	0.20	21.39	22.22	1.38	1.42	1.15	1.11	1.14
1400.00	5.06	5.14	4.97	0.17	24.31	28.03	2.29	1.21	1.07	1.08	1.06
1600.00	5.02	5.11	4.95	0.16	28.10	31.19	3.09	1.16	1.07	1.18	1.10
1800.00	5.11	5.21	5.07	0.15	24.57	21.99	3.55	1.38	1.10	1.27	1.14
2000.00	5.17	5.25	5.14	0.11	23.65	20.61	3.66	1.45	1.09	1.26	1.11
2200.00	5.11	5.13	5.10	0.04	26.04	23.29	3.78	1.24	1.07	1.15	1.06
2400.00	5.18	5.13	5.17	0.05	19.84	18.82	4.25	1.26	1.09	1.03	1.11
2450.00	5.27	5.21	5.26	0.07	17.87	16.84	4.45	1.41	1.11	1.08	1.12

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



Notes

- 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.
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