

# Power Splitter/Combiner

## ZA4PD-2+

4 Way-0° 50Ω 1000 to 2000 MHz



Generic photo used for illustration purposes only

CASE STYLE: DD52

Connectors	Model
SMA	ZA4PD-2-S+
N-TYPE	ZA4PD-2-N+

**+RoHS Compliant**

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

### Maximum Ratings

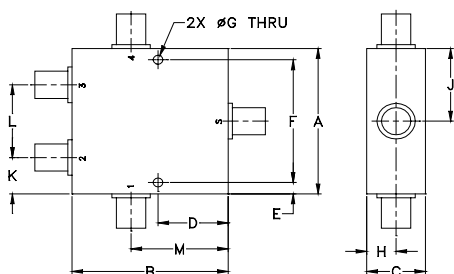
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.375W max.
DC Current	1.2 A (300mA for each port)

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

### Outline Drawing



### Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
2.00	2.00	.75	.90	.156	1.688	.125
50.80	50.80	19.05	22.86	3.96	42.88	3.18
H	J	K	L	M		wt
.38	1.00	.50	1.00	1.25		grams
9.65	25.40	12.70	25.40	31.75		150.00

### Features

- wideband, 1000 to 2000 MHz
- good isolation, 25 dB typ.
- up to 10W power input as splitter
- good VSWR, 1.20:1 typ.

### Applications

- GPS
- communication systems

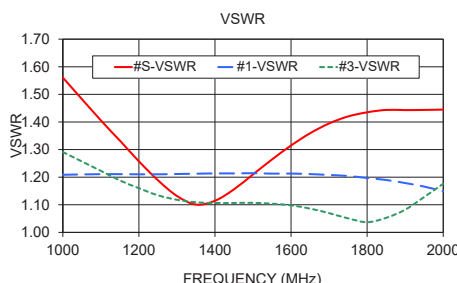
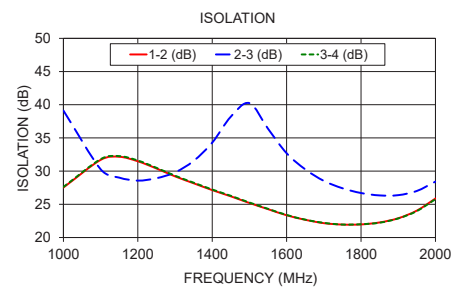
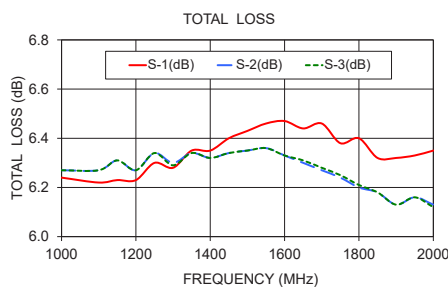
### Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 6.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
	Typ.	Min.	Typ.	Max.	Max.	Max.
$f_c - f_u$						
1000-2000	25	16	0.3	1.0	6	0.7

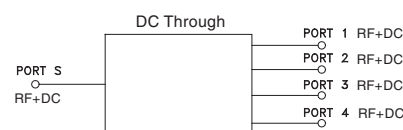
### Typical Performance Data

Freq. (MHz)	Total Loss <sup>1</sup> (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						
1000	6.24	6.27	6.27	6.25	0.03	27.53	39.12	27.62	1.90	1.56	1.21	1.29	1.29	1.20
1100	6.22	6.27	6.27	6.22	0.05	31.69	30.28	31.80	1.94	1.41	1.21	1.22	1.22	1.20
1150	6.23	6.31	6.31	6.22	0.09	32.16	29.02	32.26	1.75	1.33	1.21	1.19	1.19	1.20
1200	6.23	6.27	6.27	6.23	0.04	31.48	28.57	31.60	1.87	1.26	1.21	1.16	1.16	1.20
1300	6.28	6.30	6.29	6.27	0.03	29.21	29.81	29.31	1.80	1.13	1.21	1.12	1.12	1.20
1400	6.35	6.32	6.32	6.35	0.03	27.14	34.29	27.23	1.85	1.11	1.21	1.11	1.11	1.21
1450	6.40	6.34	6.34	6.40	0.06	26.20	38.20	26.28	1.94	1.16	1.21	1.11	1.11	1.21
1500	6.43	6.35	6.35	6.44	0.09	25.20	40.24	25.27	1.97	1.21	1.21	1.11	1.11	1.21
1600	6.47	6.33	6.33	6.47	0.14	23.35	32.69	23.40	2.24	1.31	1.21	1.10	1.10	1.21
1700	6.46	6.27	6.28	6.46	0.19	22.16	28.53	22.21	2.63	1.39	1.21	1.06	1.07	1.21
1750	6.38	6.24	6.25	6.38	0.14	21.95	27.42	21.95	3.03	1.42	1.20	1.05	1.05	1.21
1800	6.40	6.20	6.21	6.40	0.20	21.97	26.70	22.00	3.00	1.44	1.20	1.03	1.04	1.21
1900	6.32	6.13	6.13	6.31	0.19	22.90	26.38	22.87	3.10	1.44	1.18	1.09	1.08	1.19
1950	6.33	6.16	6.16	6.32	0.17	24.05	27.01	23.98	3.27	1.44	1.17	1.14	1.13	1.18
2000	6.35	6.13	6.12	6.32	0.23	25.87	28.42	25.77	3.05	1.44	1.15	1.19	1.18	1.16

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



### electrical schematic



### 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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