

# Power Splitter/Combiner

## ZAPD-23-S+

2 Way-0° 50Ω 700 to 2000 MHz



Generic photo used for illustration purposes only

CASE STYLE: F1164

Connectors Model  
SMA ZAPD-23-S+

**+RoHS Compliant**

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

### Maximum Ratings

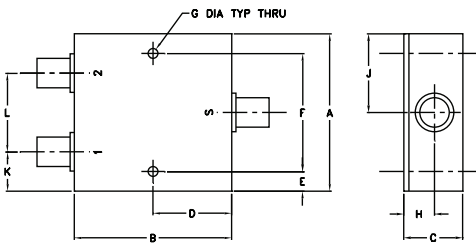
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.5W max.
DC Current	800 mA (400mA for each port)

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

### Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2

### Outline Drawing



### Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
2.00	1.75	0.75	0.875	0.13	1.750	0.125
50.80	44.45	19.05	22.23	3.30	44.45	3.18

H	J	K	L	wt
0.38	1.00	0.50	1.00	grams
9.65	25.40	12.70	25.40	65.0

### Features

- wideband, 700 to 2000 MHz
- low insertion loss, 0.4 dB typ.
- good isolation, 27 dB typ.
- up to 10W power input as splitter
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 0.5 deg. typ.
- excellent VSWR, 1.15:1 typ.
- rugged shielded case

### Applications

- UHF
- cellular
- GPS
- PCS/DCS

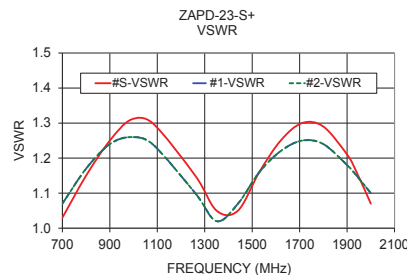
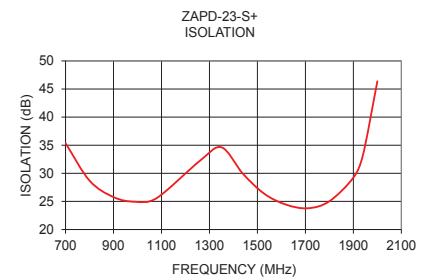
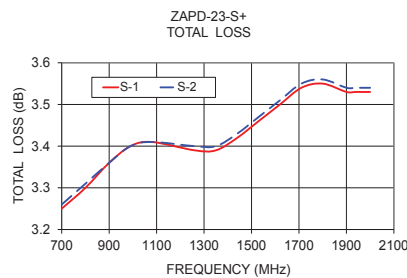
### Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)	
	Typ.	Min.	Typ.	Max.			S Typ.	OUT Typ.
$f_L$ - $f_U$					Max.	Max.		
700-2000	27	20	0.4	0.8	2	0.2	1.15	1.15

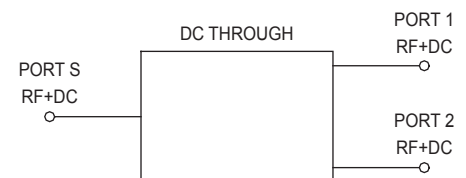
### Typical Performance Data

Frequency (MHz)	Total Loss <sup>1</sup> (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
700.00	3.25	3.26	0.01	35.36	0.22	1.03	1.07	1.07
800.00	3.30	3.31	0.01	28.70	0.25	1.15	1.17	1.16
900.00	3.36	3.36	0.01	25.77	0.32	1.25	1.24	1.23
990.00	3.40	3.40	0.01	24.94	0.37	1.31	1.26	1.25
1080.00	3.41	3.41	0.01	25.59	0.40	1.30	1.24	1.23
1260.00	3.39	3.40	0.01	32.22	0.47	1.15	1.10	1.10
1350.00	3.39	3.40	0.01	34.63	0.51	1.05	1.02	1.02
1440.00	3.42	3.43	0.01	29.90	0.54	1.05	1.07	1.07
1530.00	3.46	3.47	0.01	26.32	0.60	1.16	1.16	1.15
1620.00	3.50	3.51	0.01	24.42	0.62	1.25	1.22	1.21
1710.00	3.54	3.55	0.01	23.78	0.67	1.30	1.25	1.24
1800.00	3.55	3.56	0.01	25.03	0.71	1.29	1.24	1.23
1900.00	3.53	3.54	0.01	29.24	0.77	1.21	1.18	1.17
1940.00	3.53	3.54	0.01	33.27	0.79	1.16	1.15	1.14
2000.00	3.53	3.54	0.01	46.37	0.82	1.07	1.10	1.09

1. Total Loss = Insertion Loss + 3dB splitter loss.



### 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.  
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