

Power Splitter/Combiner

ZAPD-21+

2 Way-0° 50Ω 500 to 2000 MHz



N-Type version shown

CASE STYLE: F53

Connectors	Model
BNC	ZAPD-21+
SMA	ZAPD-21-S+
N-TYPE	ZAPD-21-N+

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	0.125W 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

Features

- wideband, 500 to 2000 MHz
- low insertion loss, 0.25 dB typ.
- good isolation, 25 dB typ.
- up to 10W power input as splitter
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 1 deg. typ.
- excellent VSWR, 1.20:1 typ.
- rugged shielded case

Applications

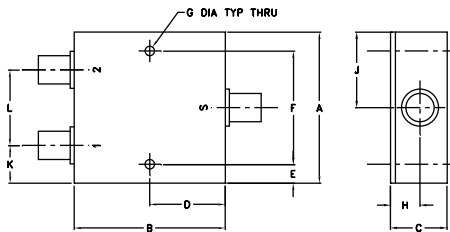
- UHF
- GPS
- cellular
- PCS/DCS
- communications systems
- instrumentation

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

Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
	Typ.	Min	Typ.	Max.	Max.	Max.
f_c - f_u						
500-2000	25	18	0.25	1.0	3	0.2

Outline Drawing



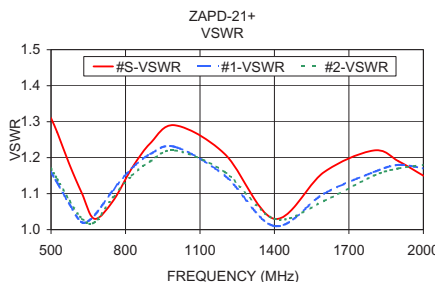
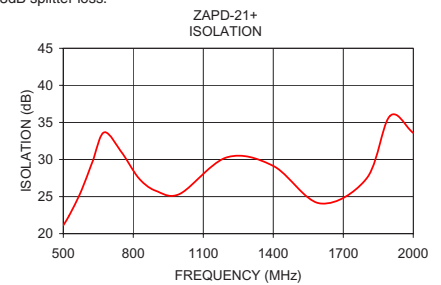
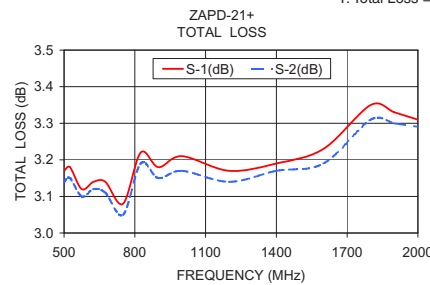
Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
2.00	2.00	.75	1.00	.13	1.750	.125
50.80	50.80	19.05	25.40	3.30	44.45	3.18
H	J	K	L	wt		
.39	1.00	.50	1.00	grams		
9.91	25.40	12.70	25.40	170.0		

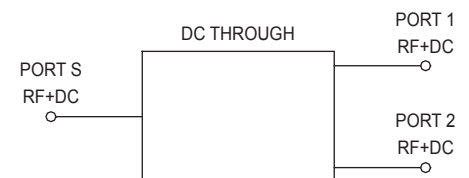
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
500.00	3.17	3.14	0.03	21.12	0.45	1.31	1.16	1.17
525.00	3.18	3.15	0.03	22.44	0.48	1.27	1.13	1.14
575.00	3.12	3.10	0.02	25.62	0.50	1.18	1.07	1.08
625.00	3.14	3.12	0.02	29.70	0.53	1.10	1.02	1.03
675.00	3.14	3.11	0.03	33.67	0.60	1.03	1.04	1.02
750.00	3.08	3.05	0.03	30.96	0.61	1.08	1.11	1.09
825.00	3.22	3.19	0.03	27.43	0.73	1.17	1.17	1.15
900.00	3.18	3.15	0.03	25.73	0.77	1.24	1.21	1.19
1000.00	3.21	3.17	0.04	25.37	0.68	1.29	1.23	1.22
1200.00	3.17	3.14	0.03	30.28	0.92	1.21	1.15	1.16
1400.00	3.19	3.17	0.02	29.13	1.15	1.03	1.01	1.03
1600.00	3.23	3.19	0.04	24.08	1.27	1.16	1.10	1.08
1800.00	3.35	3.31	0.03	27.44	1.41	1.22	1.16	1.15
1900.00	3.33	3.30	0.03	35.87	1.42	1.19	1.18	1.17
2000.00	3.31	3.29	0.01	33.59	1.48	1.15	1.17	1.18

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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