

Coaxial High Power Combiner

ZAPD-2-21-3W

2 Way-0° 50Ω 700 to 2100 MHz

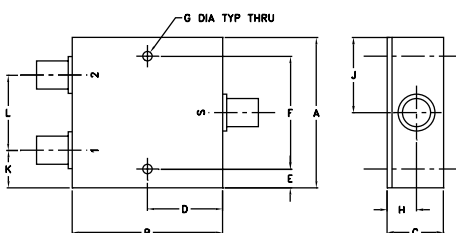
Maximum Ratings

Operating Temperature	-55°C to 90°C
Storage Temperature	-55°C to 100°C

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	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

Features

- wideband, 700-2100 MHz
- low insertion loss, 0.4 dB typ.
- good isolation, 25 dB typ.
- good amplitude unbalance, 0.05 dB typ. and phase unbalance, 0.7 deg. typ.

Applications

- LMDS • UHF
- VSAT • PCS
- GPS • cellular



SMA version shown

CASE STYLE: F53

Connectors	Model	Price	Qty.
N-TYPE	ZAPD-2-21-3W-N	\$54.95	(1-9)
SMA	ZAPD-2-21-3W-S	\$54.95	(1-9)

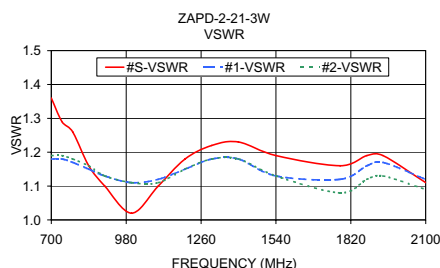
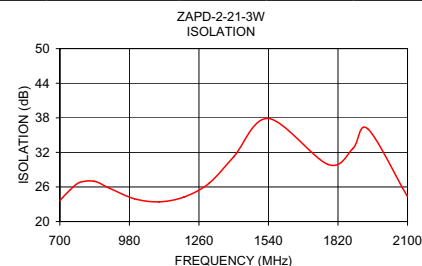
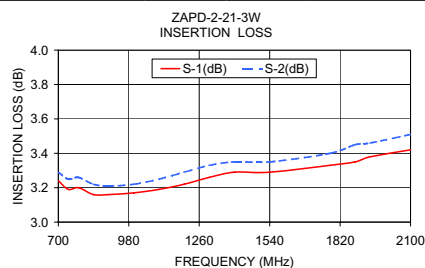
High Power Combiner Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)		AMPLITUDE UNBALANCE (dB)		POWER INPUT ¹ (W)	
f_L - f_U	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	as combiner ² Max.	as splitter Max.
700-2100	25	20	0.4	1.2	0.7	3.0	0.05	0.3	2.5	10

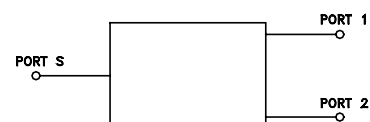
1. Over -55°C to +55°C. Derate linearly to 20% of rating at 90°C
2. As a combiner of non-coherent signals, max. power per port is power rating divided by number of ports.

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Amp. Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
700.00	3.24	3.29	0.05	23.63	0.45	1.36	1.18	1.19
740.00	3.19	3.25	0.06	25.44	0.45	1.29	1.18	1.19
780.00	3.20	3.26	0.05	26.79	0.48	1.26	1.17	1.18
840.00	3.16	3.22	0.05	26.97	0.51	1.16	1.15	1.16
900.00	3.16	3.21	0.05	25.78	0.56	1.10	1.13	1.13
1000.00	3.17	3.22	0.05	23.95	0.64	1.02	1.11	1.11
1100.00	3.19	3.25	0.06	23.43	0.61	1.10	1.12	1.11
1200.00	3.22	3.29	0.06	24.26	0.75	1.18	1.15	1.15
1300.00	3.26	3.33	0.06	26.61	0.81	1.22	1.18	1.18
1400.00	3.29	3.35	0.06	31.24	0.86	1.23	1.18	1.18
1540.00	3.29	3.35	0.06	37.88	0.94	1.19	1.13	1.13
1780.00	3.33	3.40	0.08	29.91	1.10	1.16	1.12	1.08
1880.00	3.35	3.45	0.09	32.67	1.15	1.19	1.16	1.12
1940.00	3.38	3.46	0.09	36.09	1.16	1.19	1.17	1.13
2100.00	3.42	3.51	0.09	24.32	1.31	1.11	1.12	1.09



electrical schematic



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RF/IF MICROWAVE COMPONENTS

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