

Coaxial Power Splitter/Combiner

ZAPDQ-4+

2 Way-90° 50Ω 2000 to 4200 MHz



SMA version shown
CASE STYLE: F14

Connectors	Model
N-TYPE	ZAPDQ-4-N+
SMA	ZAPDQ-4-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)	1W max.
Internal Dissipation	0.125W max.

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

Pin Connections

SUM PORT	S
PORT 1 (0°)	1
PORT 2 (+90°)	3

Features

- wideband, 2000 to 4200 MHz
- low insertion loss, 0.4 dB typ.
- good isolation, 22 dB typ.
- rugged shielded case

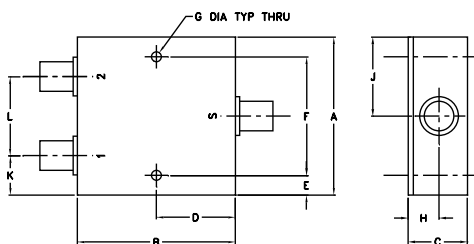
Applications

- balanced amplifiers
- modulators
- test set-ups

Electrical Specifications

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency		2000		4200	MHz
Insertion Loss (above theoretical 3 dB)	2000 - 4200	—	0.4	0.9	dB
Isolation	2000 - 4200	16	22	—	dB
Phase Unbalance	2000 - 4200	—	5	8	Degree
Amplitude Unbalance	2000 - 4200	—	—	1.0	dB
VSWR (Port S)	2000 - 4200	—	1.25	—	:1
VSWR (Port 1, 2)	2000 - 4200	—	1.35	—	:1

Outline Drawing



Outline Dimensions (inch/mm)

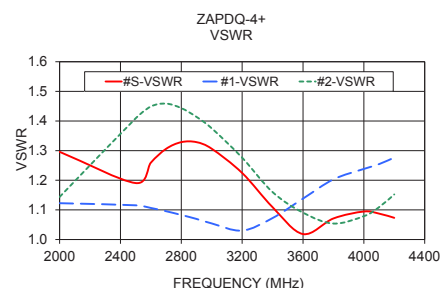
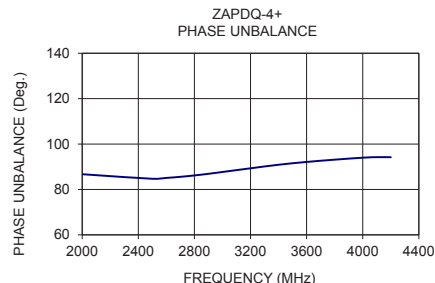
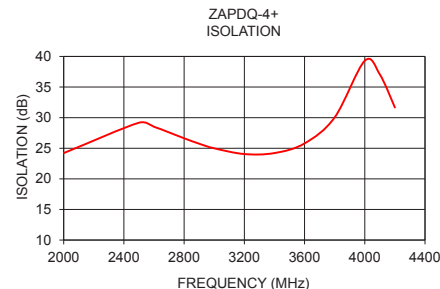
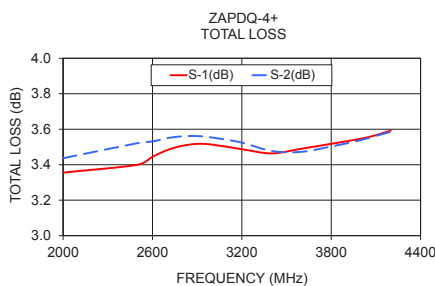
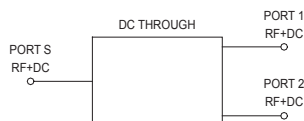
A	B	C	D	E	F	G
2.00	2.00	0.75	1.00	0.25	1.500	0.125
50.80	50.80	19.05	25.40	6.35	38.10	3.18
H	J	K	L			wt
0.39	1.00	0.50	1.00			grams
9.91	25.40	12.70	25.40			170.0

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						
2000	3.36	3.44	0.08	24.21	86.71	1.30	1.12	1.14
2500	3.40	3.52	0.12	29.17	84.70	1.19	1.12	1.41
2600	3.44	3.53	0.09	28.51	85.08	1.26	1.11	1.45
2700	3.48	3.55	0.07	27.59	85.56	1.31	1.10	1.46
2800	3.51	3.56	0.05	26.63	86.18	1.33	1.08	1.44
2900	3.52	3.56	0.04	25.74	86.89	1.33	1.07	1.41
3000	3.51	3.55	0.04	24.99	87.70	1.31	1.05	1.38
3200	3.49	3.52	0.04	24.05	89.31	1.22	1.03	1.28
3400	3.46	3.48	0.01	24.21	90.88	1.11	1.07	1.16
3600	3.49	3.47	0.02	25.79	92.11	1.02	1.14	1.09
3800	3.52	3.50	0.02	30.04	93.12	1.07	1.20	1.05
4000	3.55	3.54	0.01	39.30	93.99	1.09	1.24	1.08
4100	3.57	3.56	0.00	37.06	94.22	1.09	1.25	1.11
4200	3.59	3.58	0.01	31.66	94.19	1.07	1.28	1.15

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

electrical schematic



Notes

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REV. OR
M164029
ED17080801
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