

Coaxial

High Power Combiner

ZB4CS-960-12W

4 Way-0° 50Ω

820 to 960 MHz

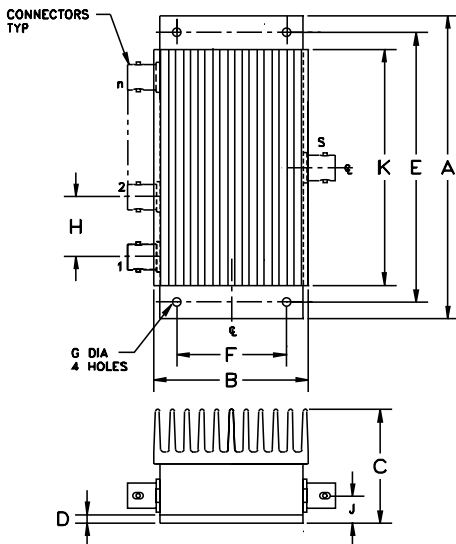
Maximum Ratings

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
PORT 3	3
PORT 4	4

Outline Drawing



Outline Dimensions (inch/mm)

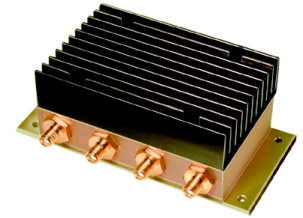
A	B	C	D	E	F
4.50	2.25	1.69	.125	4.000	1.625
114.30	57.15	42.93	3.18	101.60	41.28
G	H	J	K	wt	
.144	.890	.44	3.50	grams	
3.66	22.61	11.18	88.90	500	

Features

- high power, up to 12W input power
- low insertion loss, 0.3 dB typ.
- high isolation, 28 dB typ.
- excellent VSWR, 1.18 typ.

Applications

- cellular
- UHF



CASE STYLE: AW256

Connectors	Model	Price	Qty.
SMA	ZB4CS-960-12W-S	\$134.95	(1-9)

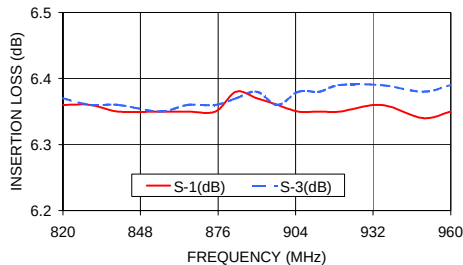
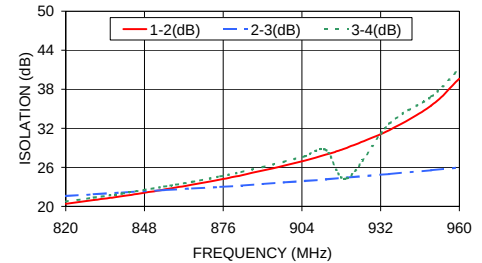
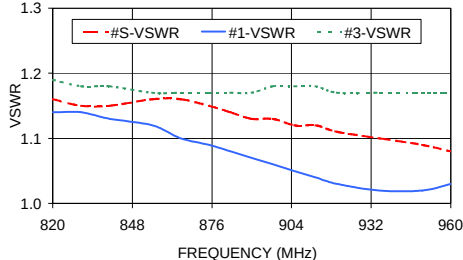
High Power Combiner Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 6.0 dB		PHASE UNBALANCE (Degrees)		AMPLITUDE UNBALANCE (dB)		POWER INPUT ¹ (W)	
f _L -f _H	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	as combiner ² Max.	as splitter Max.
820-960	28	17	0.3	0.8	2.0	6.0	0.2	0.6	12	12

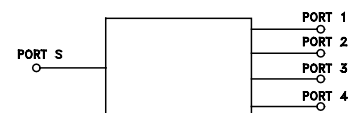
1. Over -55°C to +55°C. Derate linearly to 20% of rating at 90°C
2. As a combiner of non-coherent signals, max. power per port is power rating divided by number of ports.

Typical Performance Data

Freq. (MHz)	Insertion Loss (dB)				Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR				
	S-1	S-2	S-3	S-4		1-2	2-3	3-4		S	1	2	3	4
820.00	6.36	6.43	6.37	6.29	0.14	20.41	21.61	20.77	1.48	1.16	1.14	1.20	1.19	1.13
830.00	6.36	6.44	6.36	6.28	0.16	20.98	21.88	21.36	1.52	1.15	1.14	1.20	1.18	1.13
840.00	6.35	6.43	6.36	6.27	0.16	21.58	22.14	21.98	1.57	1.15	1.13	1.20	1.18	1.12
855.00	6.35	6.43	6.35	6.27	0.16	22.60	22.52	23.05	1.47	1.16	1.12	1.19	1.17	1.12
865.00	6.35	6.44	6.36	6.26	0.18	23.36	22.78	23.79	1.59	1.16	1.10	1.18	1.17	1.11
875.00	6.35	6.45	6.36	6.30	0.16	24.14	23.00	24.62	1.55	1.15	1.09	1.17	1.17	1.11
882.50	6.38	6.45	6.37	6.29	0.16	24.78	23.21	25.29	1.56	1.14	1.08	1.17	1.17	1.11
890.00	6.37	6.46	6.38	6.29	0.17	25.51	23.46	26.05	1.53	1.13	1.07	1.16	1.17	1.11
897.50	6.36	6.44	6.36	6.29	0.15	26.23	23.69	26.85	1.43	1.13	1.06	1.16	1.18	1.11
905.00	6.35	6.45	6.38	6.28	0.17	27.05	23.92	27.71	1.40	1.12	1.05	1.16	1.18	1.11
912.50	6.35	6.45	6.38	6.27	0.17	27.96	24.17	28.69	1.50	1.12	1.04	1.16	1.18	1.12
920.00	6.35	6.46	6.39	6.28	0.18	29.03	24.44	24.32	1.51	1.11	1.03	1.16	1.17	1.12
935.00	6.36	6.45	6.39	6.27	0.17	31.72	24.99	32.67	1.40	1.10	1.02	1.17	1.17	1.12
950.00	6.34	6.45	6.38	6.27	0.18	35.51	25.58	36.85	1.45	1.09	1.02	1.17	1.17	1.12
960.00	6.35	6.45	6.39	6.27	0.18	39.62	26.00	41.10	1.40	1.08	1.03	1.17	1.17	1.12

ZB4CS-960-12W
INSERTION LOSSZB4CS-960-12W
ISOLATIONZB4CS-960-12W
VSWR

electrical schematic



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