

Coaxial High Power Combiner

8 Way-0° 50Ω 800 to 950 MHz

ZB8CS-950-32W

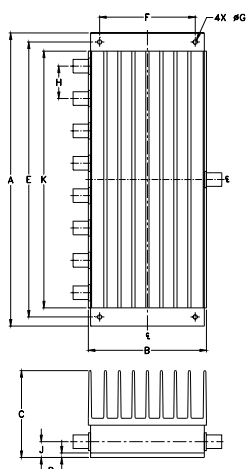
Maximum Ratings

Operating Temperature	-55°C to 90°C
Storage Temperature	-55°C to 100°C
Permanent damage may occur if any of these limits are exceeded.	

Coaxial Connections

SUM PORT	S
PORT 1,2,3,4,5,6,7,8	1,2,3,4,5,6,7,8

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F
8.06	3.25	2.38	.125	7.560	2.625
204.72	82.55	60.45	3.18	192.02	66.68

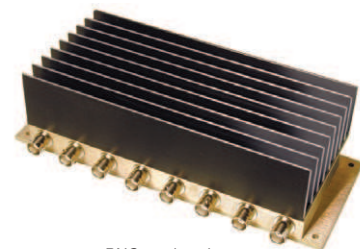
G	H	J	K	wt
.144	.890	.44	7.06	grams
3.66	22.61	11.18	179.32	1240

Features

- high power, up to 32W
- low insertion loss, 0.4 dB typ.
- high isolation, 30 dB typ.

Applications

- UHF
- cellular



BNC version shown
CASE STYLE: AW257

Connectors	Model	Price	Qty.
BNC	ZB8CS-950-32W	\$199.95	(1-9)
N-TYPE	ZB8CS-950-32W-N	\$224.95	(1-9)
SMA	ZB8CS-950-32W-S	\$224.95	(1-9)

High Power Combiner Electrical Specifications

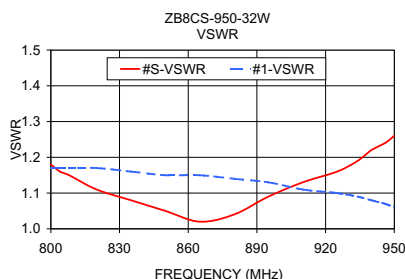
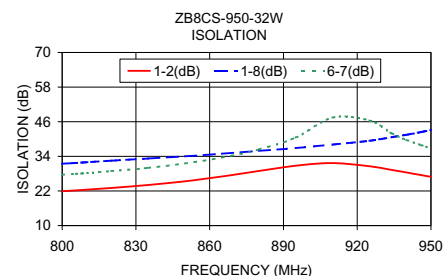
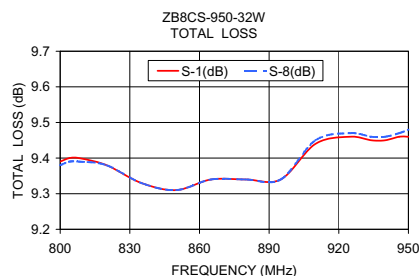
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 9.0 dB		PHASE UNBALANCE (Degrees)		AMPLITUDE UNBALANCE (dB)		POWER INPUT ¹ (W)	
f_L - f_U	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	as combiner ² Max.	as splitter Max.
800-950	30	18	0.4	1.0	2.0	6.0	0.10	0.5	32	32

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)	Total Loss ¹ (dB)						Amp. Unbal. (dB)	Isolation (dB)				Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 8
	S-1	S-3	S-5	S-4	S-6	S-8		1-2	1-8	3-4	6-7				
800.00	9.39	9.36	9.45	9.46	9.45	9.38	0.10	21.88	31.44	21.63	27.60	1.33	1.18	1.17	1.17
804.00	9.40	9.36	9.45	9.46	9.46	9.39	0.10	22.12	31.64	21.84	27.85	1.34	1.16	1.17	1.17
808.00	9.40	9.36	9.45	9.47	9.46	9.39	0.11	22.34	31.85	22.07	28.06	1.33	1.15	1.17	1.17
820.00	9.38	9.35	9.44	9.46	9.45	9.38	0.12	23.05	32.49	22.74	28.91	1.30	1.11	1.17	1.17
835.00	9.33	9.29	9.38	9.41	9.40	9.33	0.12	24.07	33.25	23.67	29.99	1.31	1.08	1.16	1.16
850.00	9.31	9.28	9.37	9.39	9.39	9.31	0.11	25.35	34.00	24.85	31.53	1.30	1.05	1.15	1.15
865.00	9.34	9.31	9.41	9.42	9.42	9.34	0.11	27.01	34.91	26.27	33.55	1.36	1.02	1.15	1.15
880.00	9.34	9.31	9.41	9.42	9.42	9.34	0.11	28.93	35.90	27.83	36.38	1.41	1.04	1.14	1.14
895.00	9.34	9.30	9.40	9.42	9.42	9.34	0.13	30.74	36.88	29.05	40.49	1.45	1.09	1.13	1.13
910.00	9.44	9.39	9.51	9.51	9.53	9.45	0.13	31.66	38.07	29.52	47.46	1.46	1.13	1.11	1.12
925.00	9.46	9.41	9.53	9.52	9.55	9.47	0.13	30.57	39.39	28.61	46.43	1.46	1.16	1.10	1.10
934.00	9.45	9.41	9.52	9.51	9.54	9.46	0.14	29.31	40.64	27.66	41.99	1.45	1.19	1.09	1.09
940.00	9.45	9.40	9.52	9.50	9.54	9.46	0.14	28.42	41.46	26.93	39.66	1.45	1.22	1.08	1.08
946.00	9.46	9.41	9.52	9.51	9.55	9.47	0.14	27.49	42.42	26.18	37.88	1.46	1.24	1.07	1.08
950.00	9.46	9.42	9.53	9.52	9.56	9.48	0.14	26.90	43.12	25.70	36.83	1.45	1.26	1.06	1.07

1. Total Loss = Insertion Loss + 9dB splitter loss.



electrical schematic



For detailed performance specs
& shopping online see web site

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