

Coaxial High Power Combiner

ZB3CS-900-6W

3 Way-0° 50Ω 440 to 900 MHz

Maximum Ratings

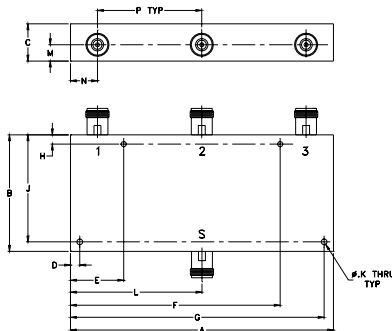
Operating Temperature	-55°C to 90°C
Storage Temperature	-55°C to 100°C

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

Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2
PORT 3	3

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
7.06	3.13	1.00	.250	1.430	5.630	6.810	.250
179.32	79.50	25.40	6.35	36.32	143.00	172.97	6.35
J	K	L	M	N	P		wt
2.875	.156	3.53	.44	.73	2.80		grams
73.03	3.96	89.66	11.18	18.54	71.12		810

Features

- up to 6 watts input power
- good isolation, 24 dB typ.
- low insertion loss, 0.2 dB typ.
- excellent VSWR, 1.2 typ.

Applications

- TV broadcast
- UHF transmitters



CASE STYLE: Z667

Connectors	Model	Price	Qty.
N-TYPE	ZB3CS-900-6W-N	\$79.95	(1-9)

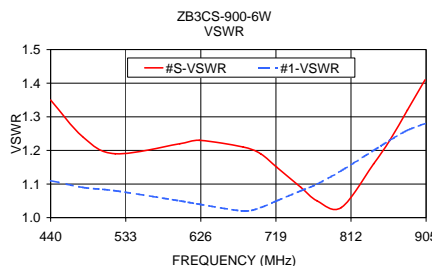
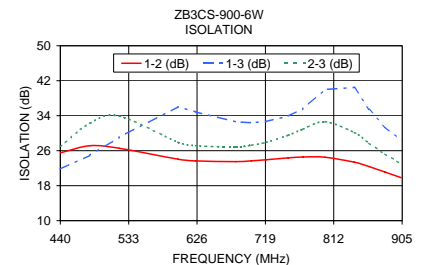
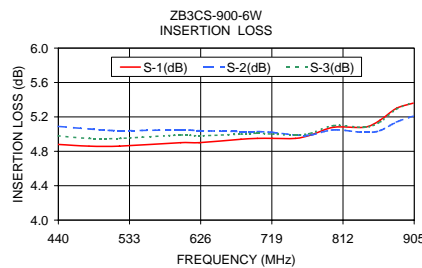
High Power Combiner Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 4.8 dB		PHASE UNBALANCE (Degrees)		AMPLITUDE UNBALANCE (dB)		POWER INPUT ¹ (W)	
	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	as combiner ² Max.	as splitter Max.
f _L -f _U	24	17	0.2	1.0	3.0	6.0	0.1	0.4	6	20

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	VSWR 1	VSWR 2	VSWR 3
	S-1	S-2	S-3		1-2	1-3	2-3					
440.00	4.88	5.09	4.98	0.21	25.51	21.81	26.95	1.52	1.35	1.11	1.04	1.09
480.00	4.86	5.06	4.95	0.20	27.14	24.93	32.28	1.61	1.24	1.09	1.05	1.07
520.00	4.86	5.04	4.95	0.18	26.56	29.04	33.92	1.70	1.19	1.08	1.07	1.05
600.00	4.90	5.05	4.99	0.15	24.06	36.03	27.95	1.88	1.22	1.05	1.09	1.01
624.00	4.90	5.04	4.98	0.14	23.67	34.88	27.17	1.93	1.23	1.04	1.10	1.01
678.67	4.94	5.03	5.00	0.09	23.51	32.60	26.85	2.13	1.21	1.02	1.09	1.04
700.00	4.95	5.03	5.01	0.08	23.68	32.41	27.27	2.19	1.19	1.03	1.09	1.06
720.00	4.95	5.02	5.00	0.07	23.93	32.68	27.93	2.22	1.15	1.05	1.09	1.08
750.00	4.95	4.99	4.99	0.04	24.35	33.94	29.53	2.35	1.09	1.08	1.09	1.11
770.00	4.99	4.99	5.01	0.03	24.56	35.57	30.94	2.37	1.05	1.10	1.09	1.13
800.00	5.08	5.05	5.10	0.05	24.50	39.99	32.62	2.63	1.03	1.14	1.10	1.16
840.00	5.08	5.02	5.08	0.06	23.37	40.47	30.15	2.69	1.16	1.20	1.13	1.21
860.00	5.16	5.04	5.14	0.12	22.37	35.45	27.71	2.90	1.23	1.23	1.15	1.24
881.82	5.30	5.14	5.29	0.16	21.10	31.39	25.21	3.07	1.32	1.26	1.17	1.27
903.64	5.36	5.21	5.37	0.16	19.84	28.37	23.05	3.08	1.41	1.28	1.19	1.30



electrical schematic



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