

Coaxial High Power Combiner

ZA2CS-500-15W

2 Way-0° 50Ω 200 to 500 MHz

Maximum Ratings

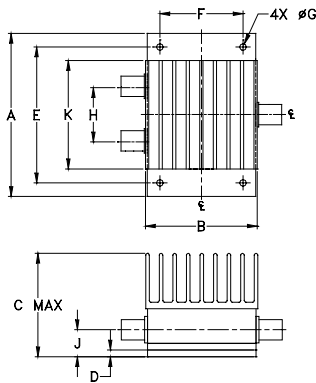
Operating Temperature	-55°C to 90°C
Storage Temperature	-55°C to 100°C

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

Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	
3.00	2.06	1.92	.100	2.500	1.525	
76.20	52.32	48.77	2.54	63.50	38.74	
G	H	J	K			wt
.125	1.000	.50	2.00			grams
3.18	25.40	12.70	50.80			330

Features

- high power, up to 15W input power
- wideband, 200 to 500 MHz
- high isolation, 31 dB typ.

Applications

- communication systems
- VHF transmitters



BNC version shown
CASE STYLE: AW254

Connectors	Model	Price	Qty.
BNC	ZA2CS-500-15W	\$74.95	(1-9)
N-TYPE	ZA2CS-500-15W-N	\$79.95	(1-9)
SMA	ZA2CS-500-15W-S	\$79.95	(1-9)

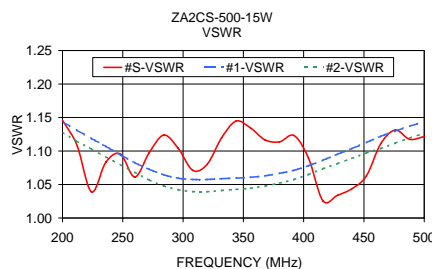
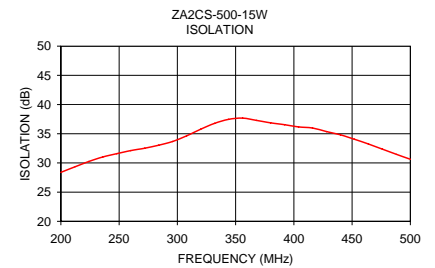
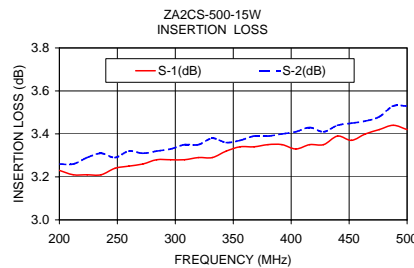
High Power Combiner Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)		AMPLITUDE UNBALANCE (dB)		POWER INPUT ¹ (W)	
	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	as combiner ² Max.	as splitter Max.
200-500	31	20	0.3	1.0	0.3	3.0	0.10	0.4	15	15

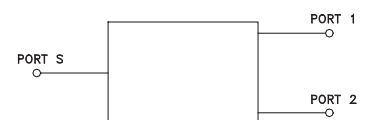
1. Over -55°C to +55°C. Derate linearly to 20% of rating at 90°C
2. As a combiner of non-coherent signals, max. power per port is power rating divided by number of ports.

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
200.00	3.23	3.26	0.03	28.38	0.31	1.15	1.14	1.13
212.00	3.21	3.26	0.06	29.33	0.50	1.11	1.13	1.11
224.00	3.21	3.29	0.09	30.25	0.19	1.04	1.12	1.10
248.00	3.24	3.29	0.05	31.59	0.27	1.10	1.09	1.08
272.00	3.26	3.31	0.05	32.52	0.20	1.10	1.07	1.06
296.00	3.28	3.33	0.05	33.68	0.29	1.10	1.06	1.04
320.00	3.29	3.35	0.06	35.77	0.36	1.08	1.06	1.04
344.00	3.32	3.36	0.04	37.47	0.44	1.14	1.06	1.04
368.00	3.34	3.39	0.06	37.28	0.29	1.12	1.06	1.05
392.00	3.35	3.40	0.05	36.55	0.41	1.12	1.07	1.06
416.00	3.35	3.43	0.08	35.98	0.09	1.03	1.09	1.07
440.00	3.39	3.44	0.05	34.82	0.24	1.04	1.10	1.09
464.00	3.40	3.46	0.05	33.24	0.33	1.11	1.12	1.10
488.00	3.44	3.53	0.09	31.48	0.35	1.12	1.14	1.12
500.00	3.42	3.53	0.10	30.63	0.30	1.12	1.14	1.13



electrical schematic



For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicircuits.com

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