

Coaxial High Power Combiner

ZA2CS-600-10W

2 Way-0° 50Ω 100 to 600 MHz

Maximum Ratings

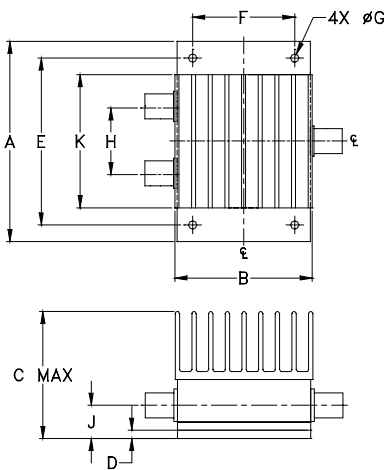
Operating Temperature	-55°C to 90°C
Storage Temperature	-55°C to 100°C

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 10W input power
- wideband, 100 to 600 MHz
- low insertion loss, 0.4 dB typ.
- high isolation, 27 dB typ.

Applications

- VHF/UHF
- communication receivers & transmitters



Generic photo used for illustration purposes only

BNC version shown
CASE STYLE: AW254

Connectors	Model
BNC	ZA2CS-600-10W
N-TYPE	ZA2CS-600-10W-N
SMA	ZA2CS-600-10W-S

High Power Combiner Electrical Specifications

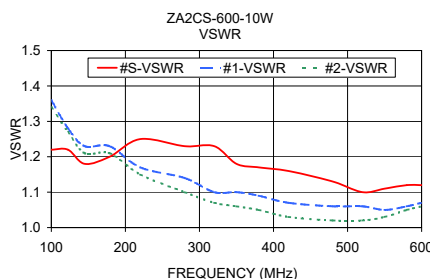
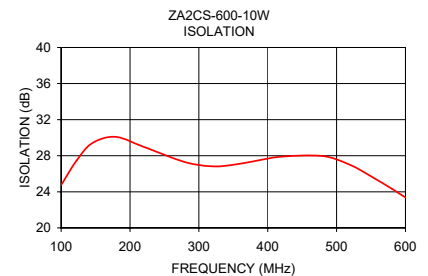
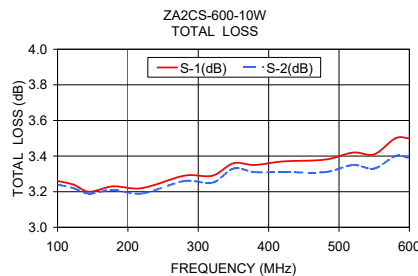
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)		AMPLITUDE UNBALANCE (dB)		POWER INPUT ¹ (W)	
	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	as combiner ² Max.	as splitter Max.
f_L - f_U	27	15	0.4	1.3	0.4	3.0	0.15	0.5	10	10

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

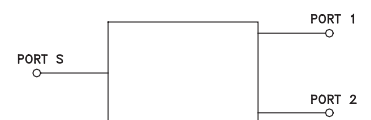
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
100.00	3.26	3.24	0.01	24.75	0.16	1.22	1.36	1.34
122.50	3.24	3.22	0.02	27.48	0.09	1.22	1.28	1.27
145.00	3.20	3.19	0.01	29.39	0.21	1.18	1.23	1.21
178.75	3.23	3.21	0.02	30.09	0.06	1.20	1.23	1.21
220.00	3.22	3.19	0.03	28.98	0.23	1.25	1.17	1.15
280.00	3.29	3.26	0.03	27.29	0.27	1.23	1.14	1.10
320.00	3.29	3.25	0.04	26.82	0.24	1.23	1.10	1.07
350.00	3.36	3.33	0.03	27.00	0.26	1.18	1.10	1.06
380.00	3.35	3.31	0.04	27.39	0.47	1.17	1.09	1.05
420.00	3.37	3.31	0.05	27.90	0.36	1.16	1.07	1.03
480.00	3.38	3.31	0.07	27.96	0.48	1.13	1.06	1.02
520.00	3.42	3.35	0.07	26.97	0.60	1.10	1.06	1.02
550.00	3.41	3.33	0.08	25.72	0.64	1.11	1.05	1.03
580.00	3.50	3.40	0.10	24.34	0.78	1.12	1.06	1.05
600.00	3.50	3.39	0.11	23.37	0.66	1.12	1.07	1.06

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



electrical schematic



Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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