

Coaxial High Power Combiner

ZA2CS-62-40W+

2 Way-0° 50Ω 100 to 600 MHz

Maximum Ratings

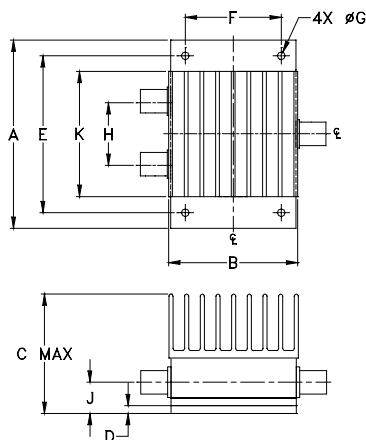
Operating Temperature	-55°C to 90°C
Storage Temperature	-55°C to 100°C

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

Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2

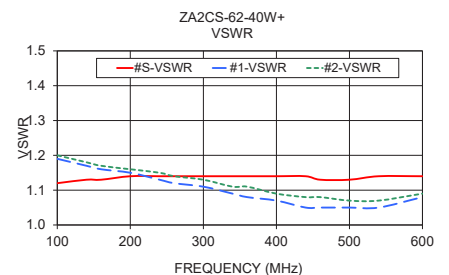
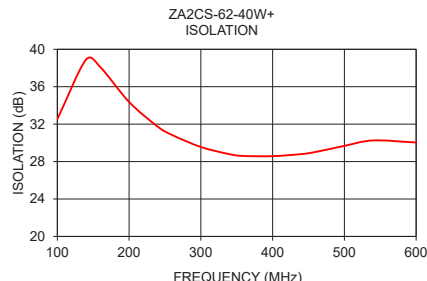
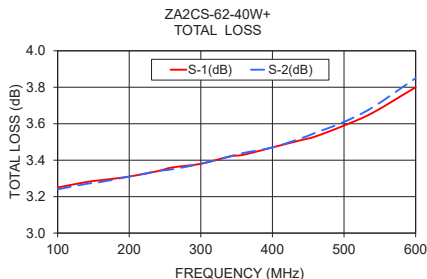
Outline Drawing



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	

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.
- The parts covered by this specification document are subject to Mini-Circuit's standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuit's website at www.minicircuits.com/WCLStore/terms.jsp

Features

- high power, up to 40W input power
- wideband, 100 to 600 MHz
- low insertion loss, 0.5 dB typ.
- high isolation, 25 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-62-40W+
N-TYPE	ZA2CS-62-40W-N+
SMA	ZA2CS-62-40W-S+

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		100		600	MHz
Insertion Loss Above 3.0 dB	100-600	—	0.8	1.2	dB
Isolation	100-600	18	22	—	dB
Phase Unbalance	100-600	—	0.9	3.0	Degree
Amplitude Unbalance	100-600	—	0.2	0.4	dB
VSWR (Port S)	100-600	—	1.25	1.5	:1
VSWR (Port 1-2)	100-600	—	1.2	1.5	:1
Power Input ¹	as combiner ²	100-600	—	5	W
	as splitter	100-600	—	40	

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)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
100.00	3.25	3.24	0.01	32.54	0.14	1.12	1.19	1.20
140.00	3.28	3.27	0.01	38.90	0.21	1.13	1.17	1.18
160.00	3.29	3.28	0.01	38.09	0.25	1.13	1.16	1.17
200.00	3.31	3.31	0.01	34.37	0.30	1.14	1.15	1.16
240.00	3.34	3.34	0.01	31.73	0.36	1.14	1.13	1.15
260.00	3.36	3.35	0.00	30.84	0.41	1.14	1.12	1.14
300.00	3.38	3.38	0.00	29.56	0.46	1.14	1.11	1.13
340.00	3.42	3.42	0.00	28.79	0.52	1.14	1.09	1.11
360.00	3.43	3.44	0.00	28.60	0.57	1.14	1.08	1.11
400.00	3.47	3.47	0.01	28.58	0.64	1.14	1.07	1.09
440.00	3.51	3.52	0.01	28.80	0.68	1.14	1.05	1.08
460.00	3.53	3.55	0.02	29.03	0.73	1.13	1.05	1.08
500.00	3.59	3.61	0.02	29.68	0.77	1.13	1.05	1.07
540.00	3.66	3.69	0.03	30.26	0.82	1.14	1.05	1.07
600.00	3.80	3.85	0.05	30.04	0.91	1.14	1.08	1.09

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