DC Pass

High Power Combiner

ZA2CS-10-20W

2 Way-0° 50Ω 900 to 1000 MHz

Generic photo used for illustration purposes only

CASE STYLE: AW254

Connectors	Model
N-TYPE	ZA2CS-10-20W-N

Maximum Ratings

Operating Temperature	-55°C to 90°C
Storage Temperature	-55°C to 100°C
DC Current	1.0 A (500mA for each port)

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

Features

- high power, up to 20W input power
- low insertion loss, 0.2 dB typ.
- high isolation, 38 dB typ.
- excellent VSWR, 1.1:1 typ.

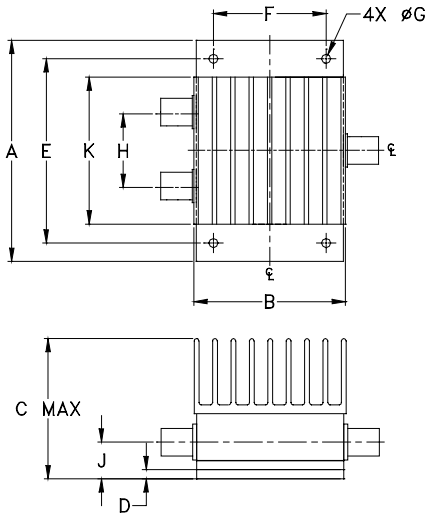
Applications

- cellular
- instrumentation
- communication transmitters & receivers

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 Specifications

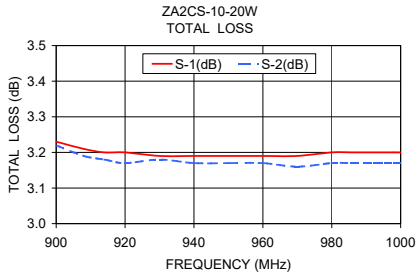
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)		AMPLITUDE UNBALANCE (dB)		POWER INPUT[1] (W)	
									as combiner[2]	as splitter
f_L-f_U	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.
900-1000	38	20	0.2	0.5	0.5	3.0	0.11	0.3	20	20

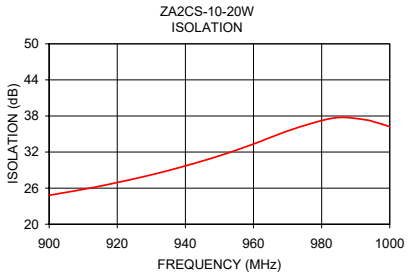
1. Over -55°C to +55°C. Derate linearly to 20% of rating at 90°C
2. As a combiner of non-coherent signals, max. power per port is power rating divided by number of ports.

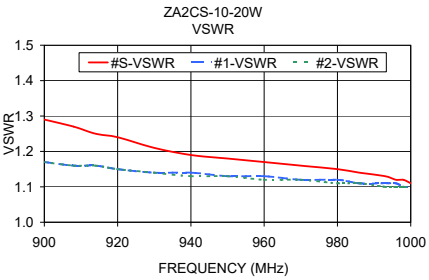
Typical Performance Data

Frequency (MHz)	Total Loss[1] (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
900.00	3.23	3.22	0.01	24.81	0.25	1.29	1.17	1.17
908.00	3.21	3.19	0.02	25.59	0.27	1.27	1.16	1.16
914.00	3.20	3.18	0.02	26.22	0.27	1.25	1.16	1.16
920.00	3.20	3.17	0.02	26.94	0.26	1.24	1.15	1.15
930.00	3.19	3.18	0.02	28.21	0.27	1.21	1.14	1.14
940.00	3.19	3.17	0.02	29.70	0.23	1.19	1.14	1.13
950.00	3.19	3.17	0.02	31.38	0.29	1.18	1.13	1.13
960.00	3.19	3.17	0.02	33.33	0.28	1.17	1.13	1.12
970.00	3.19	3.16	0.03	35.50	0.24	1.16	1.12	1.12
980.00	3.20	3.17	0.03	37.24	0.25	1.15	1.12	1.11
986.00	3.20	3.17	0.03	37.77	0.23	1.14	1.11	1.11
993.00	3.20	3.17	0.03	37.35	0.27	1.13	1.11	1.10
996.00	3.20	3.17	0.03	36.92	0.25	1.12	1.11	1.10
998.00	3.20	3.17	0.03	36.59	0.23	1.12	1.10	1.10
1000.00	3.20	3.17	0.03	36.22	0.25	1.11	1.10	1.10

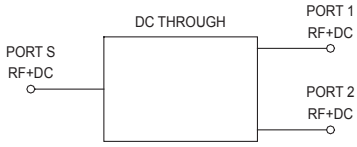
1. Total Loss = Insertion Loss + 3dB splitter loss.







electrical schematic



Notes

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