Coaxial

High Power Combiner

ZA2CS-2G-20W

2 Way-0° 50Ω 1800 to 2000 MHz

CASE STYLE: AW254

Connectors	Model	Price	Qty.
SMA	ZA2CS-2G-20W-S	Contact Sales Dept.	

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

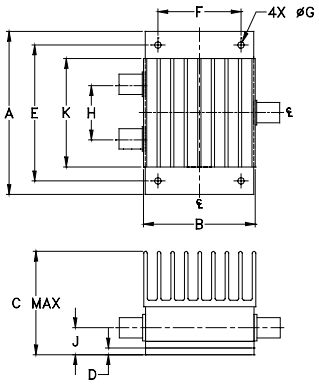
Features

- high power, up to 20W input power
- low insertion loss, 0.2 dB typ.
- high isolation, 30 dB typ.
- excellent VSWR, 1.15:1 typ.

Applications

- PCS
- UMTS
- DCS
- communication transmitters & receivers

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

High Power Combiner Electrical Specifications

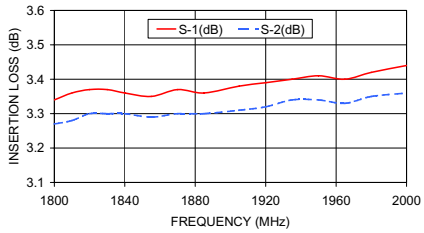
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)		AMPLITUDE UNBALANCE (dB)		POWER INPUT[1] (W)	
									as combiner[2]	as splitter
f_L-f_U	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.
1800-2000	30	20	0.2	0.5	0.5	4.0	0.05	0.2	20	20

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)	Insertion Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
1800.00	3.34	3.27	0.06	28.48	0.29	1.12	1.15	1.17
1810.00	3.36	3.28	0.08	28.55	0.23	1.12	1.16	1.19
1820.00	3.37	3.30	0.06	28.58	0.30	1.13	1.17	1.19
1830.00	3.37	3.30	0.06	28.51	0.36	1.13	1.17	1.19
1840.00	3.36	3.30	0.06	28.36	0.37	1.13	1.16	1.19
1855.00	3.35	3.29	0.06	28.06	0.30	1.13	1.14	1.17
1870.00	3.37	3.30	0.07	27.67	0.34	1.12	1.14	1.16
1885.00	3.36	3.30	0.07	27.19	0.26	1.12	1.15	1.17
1905.00	3.38	3.31	0.07	26.56	0.35	1.12	1.17	1.19
1920.00	3.39	3.32	0.07	26.00	0.34	1.13	1.17	1.19
1935.00	3.40	3.34	0.06	25.47	0.39	1.14	1.16	1.19
1950.00	3.41	3.34	0.07	24.91	0.42	1.15	1.15	1.18
1965.00	3.40	3.33	0.07	24.40	0.43	1.17	1.15	1.17
1980.00	3.42	3.35	0.07	23.90	0.40	1.18	1.16	1.18
2000.00	3.44	3.36	0.08	23.24	0.49	1.19	1.17	1.19

ZA2CS-2G-20W
INSERTION LOSS



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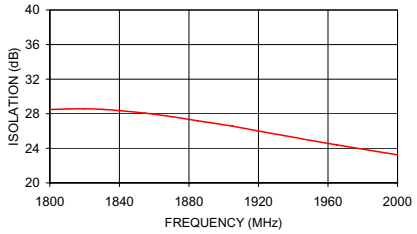
ISOLATION



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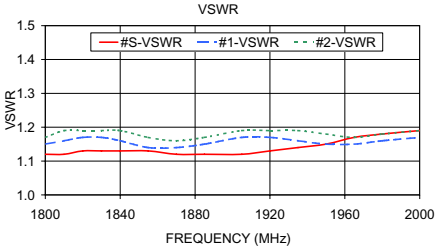
VSWR



electrical schematic

REV. A
M118941
ED-4197
ZA2CS-2G-20W
HY/TD/CP
091117