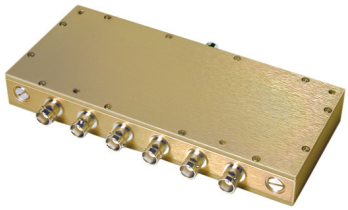
Coaxial

High Power Combiner

ZB6CS-150-12W

6 Way-0° 50Ω 50 to 150 MHz



BNC version shown
CASE STYLE: Z259

Connectors	Model	Price	Qty.
BNC	ZB6CS-150-12W	$159.95	(1-9)
N-TYPE	ZB6CS-150-12W-N	$179.95	(1-9)
SMA	ZB6CS-150-12W-S	$179.95	(1-9)

Maximum Ratings

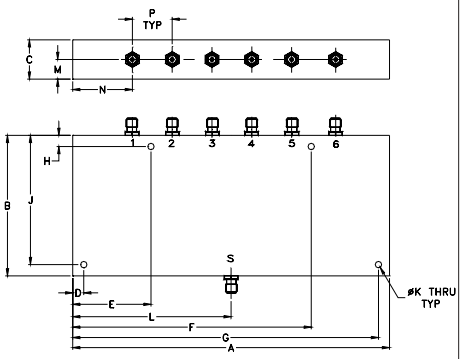
Operating Temperature	-55°C to 90°C
Storage Temperature	-55°C to 100°C

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

Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2
PORT 3	3
PORT 4	4
PORT 5	5
PORT 6	6

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F	G	H
7.06	3.13	.88	.250	1.750	5.310	6.810	.250
179.32	79.50	22.35	6.35	44.45	134.87	172.97	6.35

J	K	L	M	N	P	wt
2.875	.144	3.53	.44	1.31	.89	grams
73.03	3.66	89.66	11.18	33.27	22.61	800

Features

- input power, up to 12W input power
- low insertion loss, 0.5 dB typ.
- high isolation, 32 dB typ.

Applications

- VHF
- instrumentation

High Power Combiner Electrical Specifications

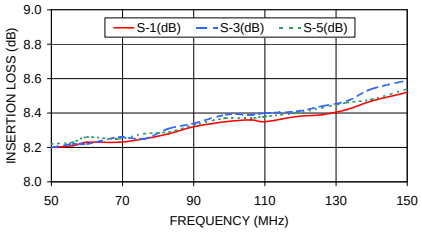
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 7.8 dB		PHASE UNBALANCE (Degrees)		AMPLITUDE UNBALANCE (dB)		POWER INPUT[1] (W)	
									as combiner[2]	as splitter
f_L-f_U	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.
50-150	32	20	0.5	1.2	3.0	9.0	0.15	0.5	12	10

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.

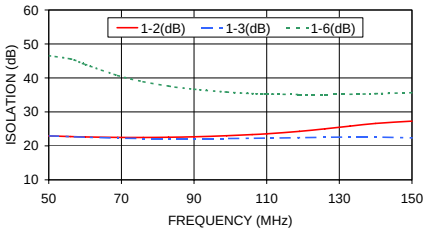
Typical Performance Data

Freq. (MHz)	Insertion Loss (dB)			Amplitude Unbalance (dB)	Isolation (dB)			Phase Unbalance (deg.)	VSWR S	VSWR 1
	S-1	S-3	S-5		1-2	1-3	1-6			
50.00	8.20	8.20	8.22	0.03	22.93	22.96	46.56	1.45	1.49	1.20
56.00	8.21	8.22	8.23	0.04	22.74	22.72	45.60	1.47	1.49	1.18
60.00	8.23	8.22	8.26	0.06	22.64	22.56	44.01	1.62	1.49	1.16
69.00	8.23	8.26	8.25	0.04	22.49	22.30	40.71	1.84	1.50	1.14
76.00	8.25	8.25	8.28	0.05	22.47	22.18	38.91	1.99	1.51	1.13
83.00	8.28	8.31	8.29	0.05	22.53	22.13	37.59	2.26	1.51	1.13
90.00	8.32	8.34	8.33	0.05	22.67	22.13	36.68	2.45	1.51	1.13
99.00	8.35	8.39	8.37	0.07	22.98	22.17	35.84	2.68	1.49	1.13
106.00	8.36	8.39	8.37	0.07	23.32	22.25	35.39	2.90	1.47	1.13
110.00	8.35	8.40	8.38	0.07	23.56	22.30	35.27	2.97	1.47	1.13
119.00	8.38	8.41	8.40	0.08	24.28	22.43	35.13	3.27	1.46	1.14
126.00	8.39	8.44	8.43	0.08	25.01	22.54	35.12	3.59	1.47	1.15
133.00	8.42	8.47	8.46	0.09	25.82	22.60	35.20	3.94	1.48	1.15
140.00	8.47	8.54	8.48	0.11	26.61	22.60	35.36	4.37	1.51	1.16
150.00	8.52	8.59	8.54	0.12	27.29	22.35	35.67	4.63	1.55	1.18

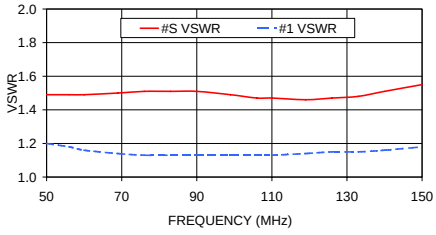
ZB6CS-150-12W
INSERTION LOSS



ZB6CS-150-12W
ISOLATION



ZB6CS-150-12W
VSWR



electrical schematic

REV. OR
M94385
ZB6CS-150-12W
HY/TD/CP/AM
090827