

# Power Splitter/Combiner

## ZBSC-611

6 Way-0° 50Ω 10 to 200 MHz

### Maximum Ratings

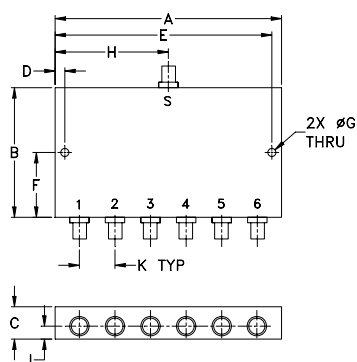
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.5W max.

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

### Coaxial Connections

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

### Outline Drawing



### Outline Dimensions (inch/mm)

A	B	C	D	E	F
3.50	2.00	.50	.150	3.350	1.00
88.90	50.80	12.70	3.81	85.09	25.40
G	H	J	K	wt	
.125	1.75	.20	.55	grams	
3.18	44.45	5.08	13.97	120	

### Features

- low insertion loss, 0.7 dB typ.
- good isolation, 28 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- good VSWR, 1.2:1 typ.
- rugged shielded case

### Applications

- VHF
- instrumentation
- radio communication



CASE STYLE: UU102

Connectors	Model	Price	Qty.
SMA	ZBSC-611	\$114.95	(1-9)

### Electrical Specifications

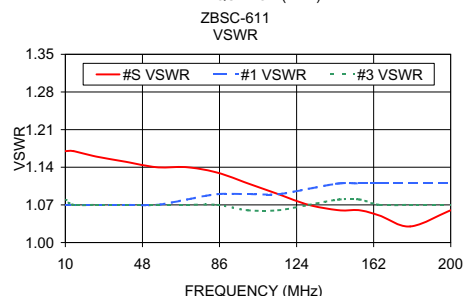
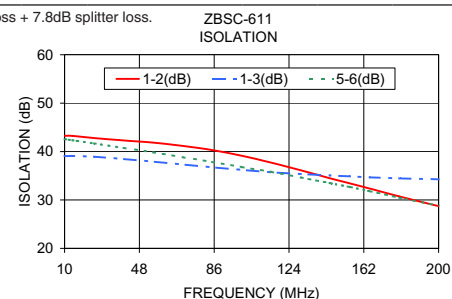
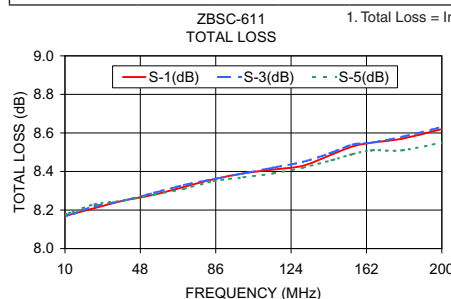
FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 7.8 dB			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)								
	L	M	U	L	M	U	L	M	U	L	M	U						
$f_L$ - $f_U$	Typ.	Min.	Typ. Min.	Typ. Min.	Typ. Min.	Typ. Max.	Typ. Max.	Typ. Max.	Max.	Max.	Max.	Max.	Max.	Max.				
10-200	28	22	26	20	23	20	0.5	0.8	0.7	1.0	0.9	1.2	4	5	6	0.2	0.3	0.5

L = low range [ $f_L$  to 10  $f_L$ ] M = mid range [10  $f_L$  to  $f_U/2$ ] U = upper range [ $f_U/2$  to  $f_U$ ]

### Typical Performance Data

Frequency (MHz)	Total Loss <sup>1</sup> (dB)			Amplitude Unbalance (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 3
	S-1	S-2	S-5		1-2	1-3	5-6				
10.00	8.17	8.17	8.18	0.01	43.26	39.05	42.55	0.15	1.17	1.07	1.08
14.00	8.18	8.18	8.19	0.02	43.23	39.09	42.34	0.19	1.17	1.07	1.07
25.00	8.21	8.22	8.23	0.01	42.79	38.94	41.68	0.26	1.16	1.07	1.07
40.00	8.25	8.25	8.25	0.01	42.29	38.45	40.76	0.37	1.15	1.07	1.07
55.00	8.28	8.29	8.28	0.02	41.84	37.92	39.84	0.43	1.14	1.07	1.07
70.00	8.32	8.33	8.31	0.02	41.16	37.32	38.84	0.59	1.14	1.08	1.07
85.00	8.36	8.36	8.35	0.02	40.31	36.75	37.86	0.90	1.13	1.09	1.07
100.00	8.39	8.39	8.37	0.02	39.13	36.21	36.80	0.87	1.11	1.09	1.06
115.00	8.41	8.42	8.39	0.03	37.71	35.71	35.80	1.04	1.09	1.09	1.06
130.00	8.43	8.45	8.42	0.04	36.13	35.35	34.65	1.15	1.07	1.10	1.07
145.00	8.49	8.50	8.46	0.05	34.46	35.06	33.47	1.27	1.06	1.11	1.08
155.00	8.53	8.54	8.49	0.06	33.42	34.88	32.67	1.49	1.06	1.11	1.08
165.00	8.55	8.55	8.51	0.07	32.35	34.67	31.81	1.50	1.05	1.11	1.07
180.00	8.57	8.58	8.51	0.07	30.73	34.46	30.47	1.51	1.03	1.11	1.07
200.00	8.62	8.63	8.55	0.10	28.73	34.26	28.81	1.70	1.06	1.11	1.07

1. Total Loss = Insertion Loss + 7.8dB splitter loss.



### electrical schematic



For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at [minicircuits.com](http://minicircuits.com)

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