

# Power Splitter/Combiner

## ZBSC-615+

6 Way-0° 50Ω 1 to 500 MHz

### Maximum Ratings

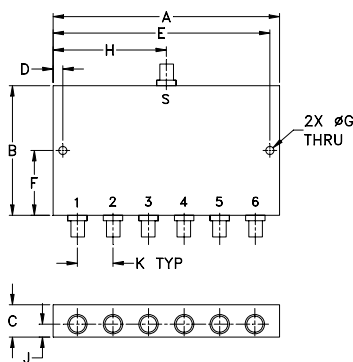
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.5W max.

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

- wideband, 1 to 500 MHz
- low insertion loss, 0.7 dB typ.
- good isolation, 26 dB typ.
- rugged shielded case

### Applications

- VHF/UHF
- communication systems
- receivers and transmitters



CASE STYLE: UU102			
Connectors	Model	Price	Qty.
SMA	ZBSC-615+	\$119.95	(1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

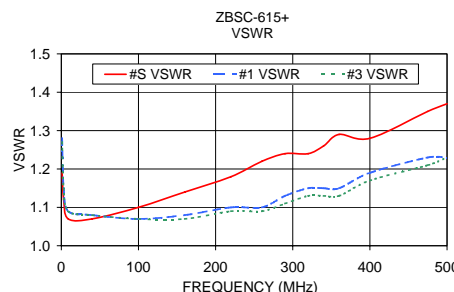
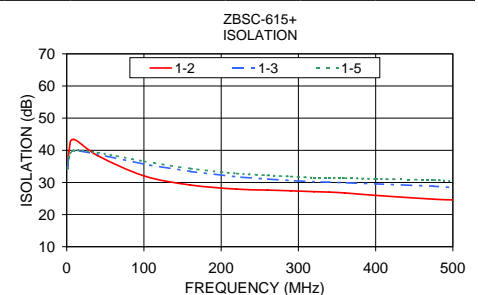
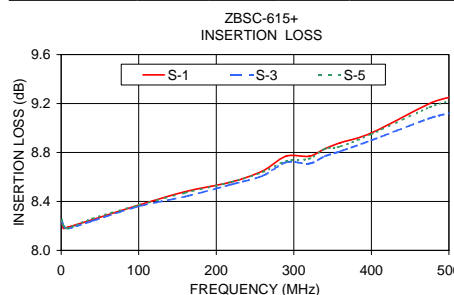
### Electrical Specifications

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.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
1-500	30	25	26	18	24	18	0.5	0.8	0.7	1.2	1.0	2.2	4	8	20	0.2	0.4	1.2

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)	Insertion Loss (dB)			Amplitude Unbalance (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 3
	S-1	S-2	S-3		1-2	1-3	1-5				
1.00	8.24	8.24	8.25	0.01	34.26	34.79	34.18	0.10	1.19	1.28	1.27
3.00	8.18	8.20	8.20	0.02	39.68	38.91	37.79	0.05	1.12	1.15	1.15
9.00	8.19	8.18	8.18	0.01	43.37	40.14	39.88	0.07	1.07	1.09	1.09
40.00	8.25	8.24	8.26	0.02	38.37	38.79	39.30	0.11	1.07	1.08	1.08
100.00	8.37	8.36	8.37	0.02	32.04	35.70	36.58	0.35	1.10	1.07	1.07
160.00	8.48	8.44	8.47	0.04	29.20	33.43	34.34	0.49	1.14	1.08	1.07
220.00	8.56	8.54	8.56	0.03	27.92	31.74	32.78	0.65	1.18	1.10	1.09
260.00	8.65	8.61	8.64	0.05	27.62	31.05	32.21	0.72	1.22	1.10	1.09
290.00	8.77	8.72	8.73	0.05	27.39	30.59	31.84	0.85	1.24	1.13	1.11
320.00	8.77	8.71	8.75	0.07	27.12	30.22	31.50	0.96	1.24	1.15	1.13
340.00	8.83	8.77	8.83	0.09	26.99	30.08	31.47	1.18	1.26	1.15	1.13
360.00	8.88	8.81	8.85	0.09	26.73	29.92	31.35	1.29	1.29	1.15	1.13
400.00	8.96	8.90	8.95	0.12	25.96	29.56	31.13	1.46	1.28	1.19	1.17
475.00	9.20	9.08	9.17	0.15	24.79	28.83	30.74	1.86	1.35	1.23	1.21
500.00	9.25	9.12	9.22	0.17	24.57	28.42	30.39	2.07	1.37	1.23	1.23



### 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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