

Power Splitter/Combiner

6 Way-0° 50Ω 1 to 500 MHz

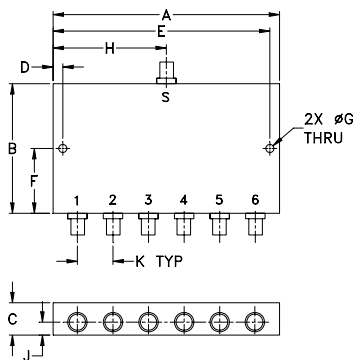
Maximum Ratings

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
SMA ZBSC-615+

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications

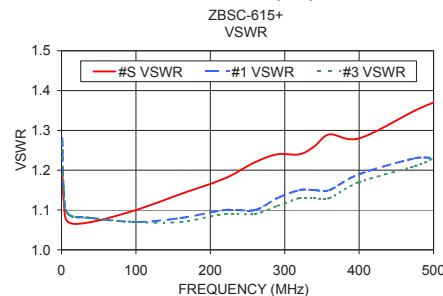
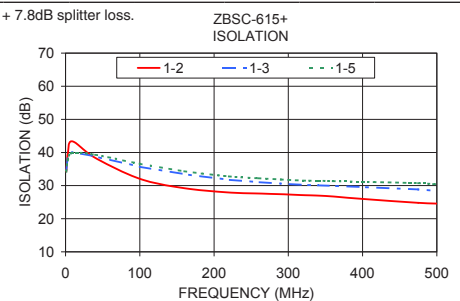
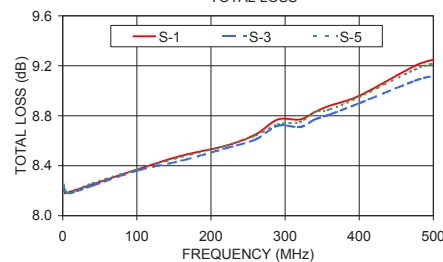
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 7.8 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L		M		U	
f_L - f_U	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
1-500	30	25	26	18	24	18	0.5	0.8	0.7	1.2	1.0	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)	Total Loss ¹ (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

ZBSC-615+ 1. Total Loss = Insertion Loss + 7.8dB splitter loss.



electrical schematic



Notes

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
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