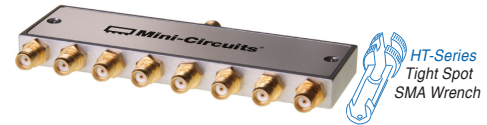


Coaxial

# Power Splitter/Combiner

## ZCSC-8-13-S+

8 Way-0° 50Ω 5 to 1000 MHz



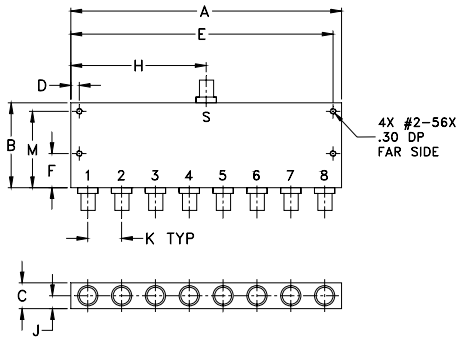
### Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	0.5W max.
Internal Dissipation	0.875W max.
Permanent damage may occur if any of these limits are exceeded.	

### Coaxial Connections

SUM PORT	S
PORT 1,2,3,4,5,6,7,8	1,2,3,4,5,6,7,8

### Outline Drawing



### Outline Dimensions (inch/mm)

A	B	C	D	E	F
4.00	1.25	.38	.125	3.875	.500
101.60	31.75	9.65	3.18	98.43	12.70
G	H	J	K	M	wt
--	2.00	.19	.500	1.125	grams
--	50.80	4.83	12.70	28.58	77

### Features

- wide band frequency, 5 to 1000 MHz
- excellent input matching, VSWR 1.35 typ.
- excellent output matching, VSWR 1.25 typ.

### Applications

- CATV
- VHF/UHF

CASE STYLE: UJ215

Connectors	Model
SMA	ZCSC-8-13-S+

**+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 9.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)	
	Typ.	Min.	Typ.	Max.			S Typ.	OUT Typ.
$f_L$ - $f_U$					Max.	Max.		
5-50	34	20	0.5	1.5	5	1.0	1.05	1.35
50-500	22	18	1.2	2.2	10	0.7	1.05	1.20
500-1000	20	16	1.8	3.0	15	1.3	1.20	1.15

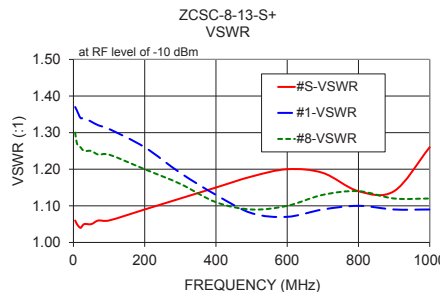
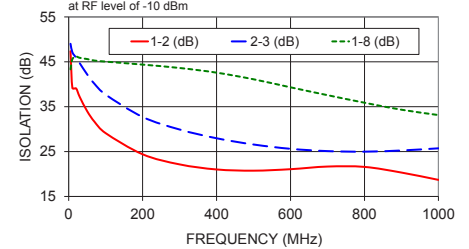
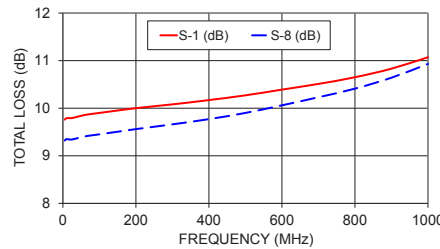
### Typical Performance Data

Freq. (MHz)	Total Loss <sup>1</sup> (dB)						Amp. Unbal. (dB)	Isolation (dB)				Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 8
	S-1	S-2	S-3	S-4	S-6	S-8		1-2	1-8	2-3	4-5				
5.00	9.76	9.60	9.62	9.46	9.46	9.32	0.44	47.36	43.32	49.01	43.33	0.96	1.06	1.37	1.30
10.00	9.79	9.62	9.64	9.49	9.46	9.35	0.44	39.19	45.59	47.12	45.66	0.75	1.05	1.36	1.27
20.00	9.79	9.61	9.63	9.49	9.46	9.34	0.44	39.09	46.15	45.92	45.94	0.34	1.04	1.34	1.26
30.00	9.80	9.63	9.64	9.50	9.47	9.35	0.45	37.15	45.88	44.67	45.55	0.22	1.05	1.34	1.25
50.00	9.84	9.66	9.68	9.54	9.51	9.39	0.45	34.00	45.61	42.19	45.52	0.25	1.05	1.33	1.25
70.00	9.87	9.70	9.71	9.56	9.54	9.42	0.45	31.62	45.27	40.07	45.47	0.26	1.06	1.32	1.24
100.00	9.90	9.73	9.74	9.60	9.58	9.45	0.46	29.10	45.04	37.68	44.94	0.33	1.06	1.31	1.24
200.00	10.00	9.83	9.85	9.71	9.69	9.56	0.44	24.39	44.37	32.71	44.87	0.54	1.09	1.26	1.20
300.00	10.08	9.91	9.93	9.80	9.79	9.66	0.42	22.14	43.62	29.91	44.19	0.79	1.12	1.19	1.16
400.00	10.17	10.00	10.03	9.90	9.91	9.77	0.40	21.01	42.58	27.96	43.32	1.00	1.15	1.13	1.11
500.00	10.27	10.11	10.14	10.02	10.05	9.90	0.37	20.74	41.10	26.57	41.28	1.21	1.18	1.08	1.09
600.00	10.39	10.23	10.27	10.16	10.22	10.06	0.33	21.07	39.31	25.61	39.25	1.43	1.20	1.07	1.10
700.00	10.51	10.36	10.40	10.31	10.41	10.23	0.31	21.66	37.56	25.10	37.09	1.65	1.19	1.09	1.13
800.00	10.65	10.50	10.56	10.48	10.62	10.41	0.32	21.58	35.88	24.98	35.53	1.90	1.14	1.10	1.14
900.00	10.83	10.68	10.76	10.69	10.87	10.64	0.32	20.32	34.32	25.24	34.24	2.21	1.14	1.09	1.12
1000.00	11.07	10.93	11.02	10.96	11.18	10.93	0.32	18.69	33.13	25.72	33.48	2.52	1.26	1.09	1.12

ZCSC-8-13-S+ TOTAL LOSS

1. Total Loss = Insertion Loss + 9dB splitter loss.

ZCSC-8-13-S+ ISOLATION



### electrical schematic



### Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at [www.minicircuits.com/WCLStore/terms.jsp](http://www.minicircuits.com/WCLStore/terms.jsp)

