

Coaxial Power Splitter/Combiner

ZFSC-10-1+

10 Way-0° 50Ω 0.5 to 100 MHz



BNC version shown
CASE STYLE: RR93
Connectors Model
BNC ZFSC-10-1+

Maximum Ratings

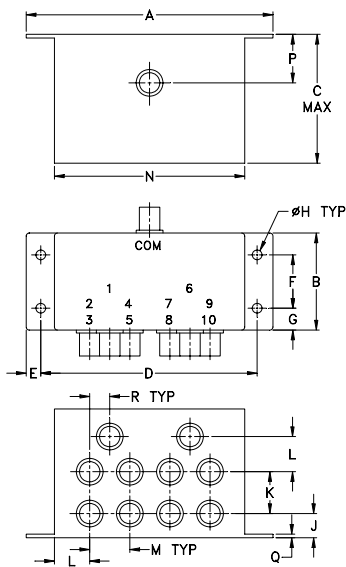
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.87W max.

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

Coaxial Connections

SUM PORT	S
PORT 1,2,3,.....,10	1,2,3,.....,10

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	
4.06	1.60	2.125	3.56	.25	.88	.36	.160	
103.12	40.64	53.98	90.42	6.35	22.35	9.14	4.06	
J	K	L	M	N	P	Q	R	
.40	.69	.58	.66	3.13	.80	.06	.33	
10.16	17.53	14.73	16.76	79.50	20.32	1.52	8.38	
							wt.	grams
								350

Features

- low insertion loss, 0.4 dB typ.
- high isolation, 30 dB typ.
- rugged shielded case

Applications

- VF/VHF
- radio communication
- instrumentation

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

Electrical Specifications

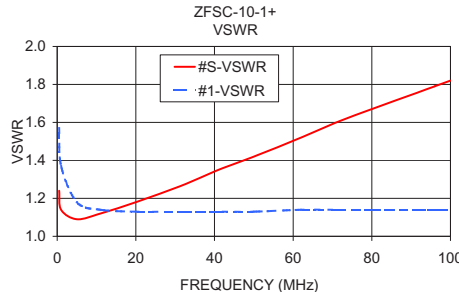
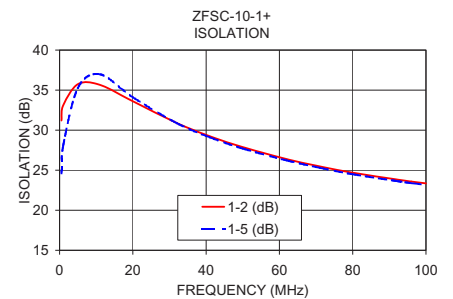
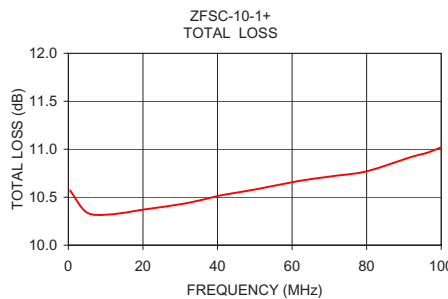
FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 10 dB			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)					
	L	M	U	L	M	U	L	M	U	L	M	U			
f_L - f_U	Typ.	Min.	Typ.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.			
0.5-100	28	20	30	0.5	0.8	0.4	1.0	0.8	1.5	3	6	10	0.2	0.3	0.4

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]

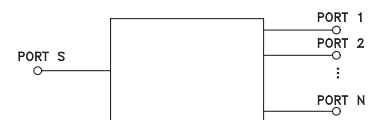
Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)	Amplitude Unbalance (dB)	Isolation (dB)		Phase Unbalance (deg.)	VSWR S	VSWR 1
			1-2	1-5			
0.50	10.57	0.05	31.20	24.61	0.10	1.24	1.57
1.00	10.54	0.04	33.11	28.09	0.11	1.14	1.37
5.00	10.34	0.04	35.75	35.27	0.38	1.09	1.18
11.00	10.32	0.02	35.66	36.98	0.64	1.12	1.14
20.00	10.37	0.02	33.61	34.11	1.14	1.18	1.13
32.00	10.44	0.01	30.89	30.87	1.72	1.27	1.13
41.00	10.52	0.02	29.24	29.11	2.20	1.35	1.13
50.00	10.58	0.03	27.88	27.70	2.59	1.42	1.13
62.00	10.67	0.03	26.39	26.22	3.16	1.52	1.14
71.00	10.72	0.05	25.48	25.30	3.58	1.60	1.14
80.00	10.77	0.05	24.69	24.50	4.01	1.67	1.14
92.00	10.92	0.07	23.84	23.65	4.53	1.76	1.14
96.00	10.96	0.08	23.58	23.39	4.78	1.79	1.14
100.00	11.02	0.08	23.36	23.17	4.97	1.82	1.14

1. Total Loss = Insertion Loss + 10dB splitter loss.



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.
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