

Power Splitter/Combiner

4 Way-0° 50Ω 1 to 1000 MHz

ZFSC-4-1+



BNC version shown
CASE STYLE: G15

Connectors	Model
BNC	ZFSC-4-1+
SMA	ZFSC-4-1-S+
BRACKET (OPTION "B")	

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

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	0.250W max.
Permanent damage may occur if any of these limits are exceeded.	

Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2
PORT 3	3
PORT 4	4

Features

- wideband, 1 to 1000 MHz
- low insertion loss, 0.6 dB typ.
- good isolation, 23 dB typ.

Applications

- cellular
- UHF
- ISM
- transmitters/receivers

Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 6.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L		M		U	
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
1-1000	25	20	23	18	20	15	0.4	1.2	0.6	1.5	1.6	2.5	4	8	8	0.2	0.4	0.7

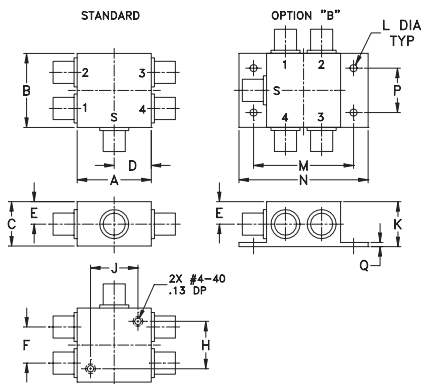
L = low range [f_L to $10 f_L$] M = mid range [$10 f_L$ to $f_U/2$] U = upper range [$f_U/2$ to f_U]

Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)				Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4		1-2	1-4	3-4						
1.00	6.60	6.60	6.60	6.60	0.00	34.76	31.08	34.88	0.18	1.18	1.58	1.58	1.57	1.57
2.60	6.53	6.53	6.53	6.53	0.01	35.90	36.14	35.85	0.06	1.13	1.40	1.40	1.39	1.39
5.00	6.48	6.49	6.48	6.48	0.01	35.80	38.16	35.39	0.06	1.12	1.33	1.33	1.33	1.33
8.00	6.47	6.47	6.47	6.46	0.01	35.80	39.09	35.17	0.04	1.12	1.31	1.31	1.31	1.31
10.00	6.45	6.46	6.45	6.46	0.01	35.86	39.42	35.16	0.09	1.12	1.31	1.31	1.30	1.30
124.00	6.51	6.51	6.51	6.51	0.00	32.51	37.88	31.70	0.21	1.13	1.31	1.31	1.31	1.31
200.00	6.58	6.58	6.58	6.58	0.00	29.70	35.16	28.92	0.42	1.14	1.30	1.30	1.29	1.30
314.00	6.53	6.53	6.52	6.53	0.01	27.20	32.16	26.36	0.61	1.15	1.28	1.28	1.27	1.27
412.00	6.64	6.63	6.61	6.61	0.02	25.99	30.15	25.04	0.78	1.15	1.26	1.26	1.24	1.25
500.00	6.76	6.75	6.73	6.74	0.03	25.45	28.75	24.45	0.91	1.15	1.24	1.25	1.23	1.23
620.00	6.80	6.77	6.73	6.74	0.07	25.45	27.23	24.36	1.12	1.14	1.24	1.25	1.21	1.22
650.00	6.85	6.83	6.78	6.80	0.07	25.58	26.96	24.49	1.26	1.13	1.25	1.26	1.21	1.23
740.00	7.01	6.98	6.90	6.92	0.11	25.99	26.28	25.07	1.30	1.09	1.27	1.28	1.22	1.24
800.00	6.99	6.96	6.86	6.88	0.13	25.91	25.75	25.35	1.56	1.05	1.29	1.29	1.24	1.26
1000.00	7.44	7.40	7.17	7.21	0.27	23.10	24.73	24.49	2.03	1.21	1.37	1.38	1.31	1.35

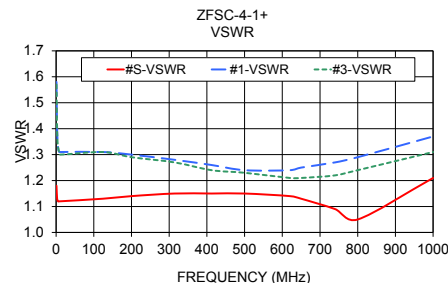
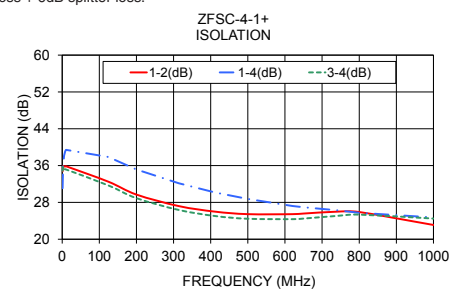
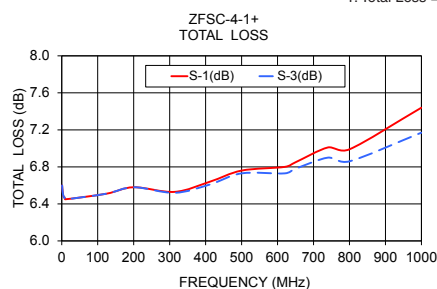
1. Total Loss = Insertion Loss + 6dB splitter loss.

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
1.25	1.25	.75	.63	.38	.61	—	.80
31.75	31.75	19.05	16.00	9.65	15.49	—	20.32
J	K	L	M	N	P	Q	wt
.80	.76	.125	1.688	2.18	.75	.07	grams
20.32	19.30	3.18	42.88	55.37	19.05	1.78	85.0



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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