

Coaxial

Power Splitter/Combiner

ZFSC-2-2+

2 Way-0° 50Ω 10 to 1000 MHz



BNC version shown
CASE STYLE: K18

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	0.125W max.

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

Coaxial Connections

SUM PORT	3
PORT 1	1
PORT 2	2

Features

- wideband, 10 to 1000 MHz
- low insertion loss, 0.4 dB typ.
- excellent isolation, 28 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 0.5 deg. typ.
- very good return loss, VSWR, 1.2:1 typ.
- rugged shielded case

Applications

- cellular
- VHF/UHF
- instrumentation

Connectors	Model	Price	Qty.
BNC	ZFSC-2-2+	\$51.95	(1-9)
SMA	ZFSC-2-2-S+	\$56.95	(1-9)
N-TYPE	ZFSC-2-2-N+	\$56.95	(1-9)
BRACKET (OPTION "B")		\$5.00	(1+)

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

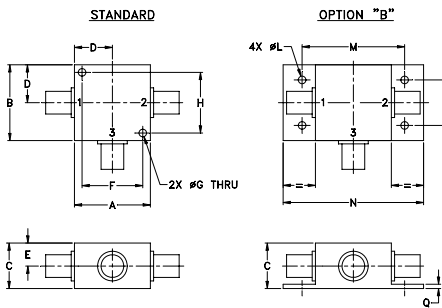
The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 3.0 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.						
10-1000	30	20	25	20	23	18	0.2	0.5	0.5	1.0	0.9	1.2	2	4	4	0.15	0.15	0.30

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]

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
1.25	1.25	.75	.63	.38	1.00	.125	1.000
31.75	31.75	19.05	16.00	9.65	25.40	3.18	25.40

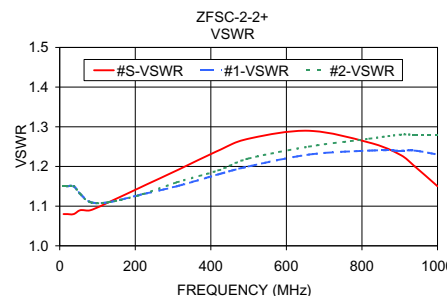
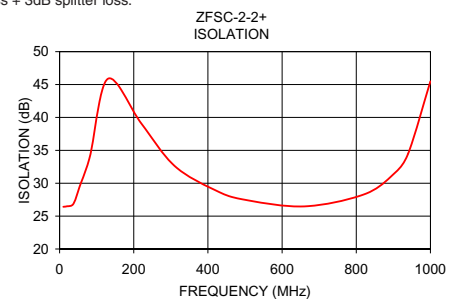
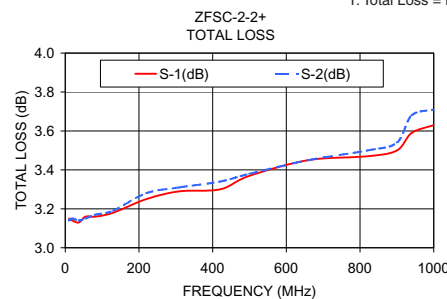
J	K	L	M	N	P	Q	wt
--	--	.125	1.688	2.18	.75	.07	grams
--	--	3.18	42.88	55.37	19.05	1.78	70.0

For option B with N-type connectors, dimension "C" increases to 0.94 inches.

Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
10.00	3.15	3.14	0.01	26.42	0.03	1.08	1.15	1.15
19.00	3.14	3.15	0.00	26.49	0.01	1.08	1.15	1.15
37.00	3.13	3.14	0.01	26.85	0.03	1.08	1.15	1.15
55.00	3.16	3.15	0.01	29.63	0.06	1.09	1.13	1.13
82.00	3.16	3.17	0.01	34.12	0.00	1.09	1.11	1.11
130.00	3.18	3.19	0.01	45.87	0.00	1.11	1.11	1.11
220.00	3.25	3.28	0.03	39.11	0.03	1.15	1.13	1.13
310.00	3.29	3.31	0.02	32.63	0.15	1.19	1.15	1.16
420.00	3.30	3.34	0.04	28.93	0.22	1.24	1.18	1.19
500.00	3.37	3.38	0.01	27.48	0.37	1.27	1.20	1.22
660.00	3.45	3.45	0.00	26.48	0.31	1.29	1.23	1.25
820.00	3.47	3.50	0.03	28.28	0.87	1.26	1.24	1.27
900.00	3.50	3.54	0.04	31.36	0.87	1.23	1.24	1.28
940.00	3.59	3.68	0.08	34.52	0.52	1.20	1.24	1.28
1000.00	3.63	3.71	0.08	45.49	0.51	1.15	1.23	1.28

1. Total Loss = Insertion Loss + 3dB splitter loss.



electrical schematic



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