

Coaxial

Power Splitter/Combiner

2 Way-0° 50Ω 10 to 1500 MHz

Maximum Ratings

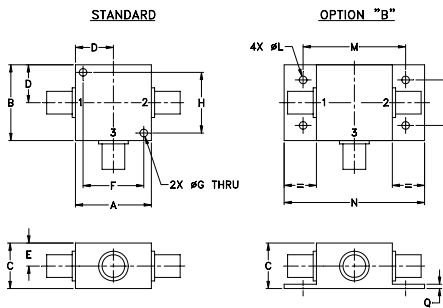
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.

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

Coaxial Connections

SUM PORT	3
PORT 1	1
PORT 2	2

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	wt
1.25	1.25	.75	.63	.38	1.00	.125	1.000	--	--	.125	1.688	2.18	.75	.07	grams
31.75	31.75	19.05	16.00	9.65	25.40	3.18	25.40	--	--	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.

Features

- wideband, 10 to 1500 MHz
- high insertion loss, 0.5 dB typ.
- high isolation, 30 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 0.5 deg. typ.
- rugged shielded case

Applications

- cellular
- satellite distribution
- VHF/UHF

ZFSC-2-5+
ZFSC-2-5



BNC version shown
CASE STYLE: K18

Connectors	Model	Price	Qty.
BNC	ZFSC-2-5(+)	\$59.95	(1-9)
SMA	ZFSC-2-5-S(+)	\$64.95	(1-9)
N-TYPE	ZFSC-2-5-N+	\$64.95	(1-9)
BRACKET (OPTION "B")		\$2.50	(1+)

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

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

Electrical Specifications

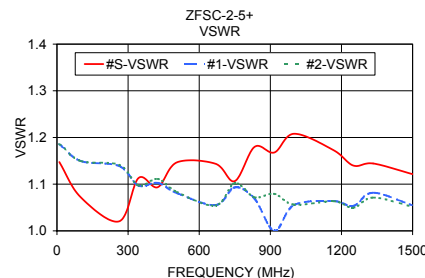
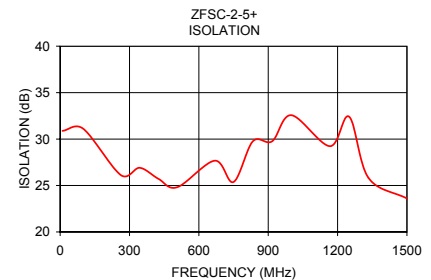
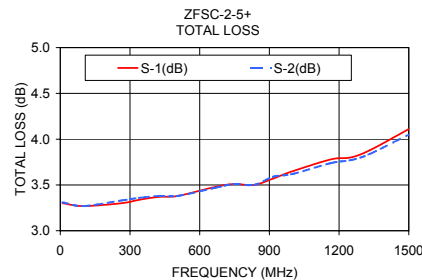
FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 3.0 dB			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L	M	U	L	M	U	L	M	U	L	M	U
f _L -f _U	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.
10-1500	25	15	30	20	25	18	0.25	0.6	0.5	1.0	0.8	1.5

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 Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
10.00	3.30	3.31	0.01	30.88	0.08	1.15	1.19	1.19
100.00	3.27	3.27	0.00	31.11	0.07	1.07	1.15	1.15
262.50	3.30	3.33	0.03	26.12	0.05	1.02	1.14	1.14
343.75	3.34	3.36	0.02	26.91	0.18	1.11	1.10	1.10
425.00	3.37	3.38	0.02	25.72	0.06	1.09	1.10	1.11
506.25	3.38	3.38	0.00	24.81	0.01	1.15	1.08	1.08
668.75	3.48	3.47	0.01	27.67	0.14	1.14	1.06	1.05
750.00	3.51	3.51	0.00	25.38	0.08	1.11	1.09	1.10
833.33	3.50	3.50	0.00	29.75	0.03	1.18	1.07	1.07
916.66	3.57	3.59	0.02	29.76	0.38	1.17	1.00	1.08
1000.00	3.65	3.62	0.03	32.57	0.30	1.21	1.06	1.06
1166.66	3.78	3.74	0.04	29.23	0.16	1.17	1.06	1.06
1250.00	3.80	3.77	0.04	32.41	0.32	1.14	1.05	1.05
1333.33	3.88	3.84	0.03	25.84	0.42	1.14	1.08	1.07
1500.00	4.11	4.05	0.06	23.60	0.32	1.12	1.05	1.05

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



electrical schematic



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