

Coaxial Power Splitter/Combiner

ZFSC-3-4+

3 Way-0° 50Ω 1 to 1000 MHz

Maximum Ratings

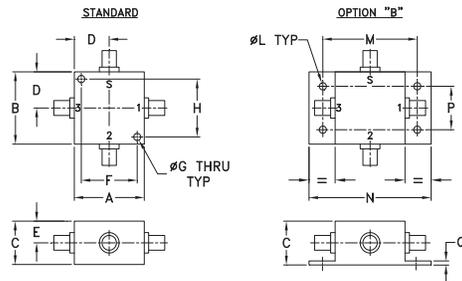
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.375W max.

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

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
1.25	1.25	.75	.63	.38	1.000	.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	75.0

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

Features

- very wideband, 1 to 1000 MHz
- low insertion loss, 0.7 dB typ.
- rugged shielded case

Applications

- cellular
- instrumentation
- communication system



Generic photo used for illustration purposes only

CASE STYLE: J17

Connectors	Model
BNC	ZFSC-3-4+
SMA	ZFSC-3-4-S+
N-TYPE	ZFSC-3-4-N+
BRACKET (OPTION "B")	

+RoHS Compliant

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

Electrical Specifications

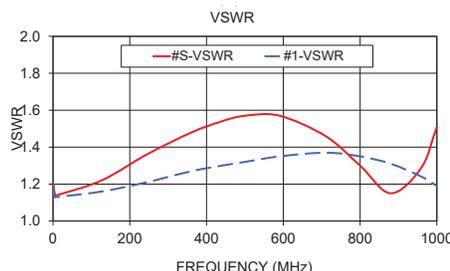
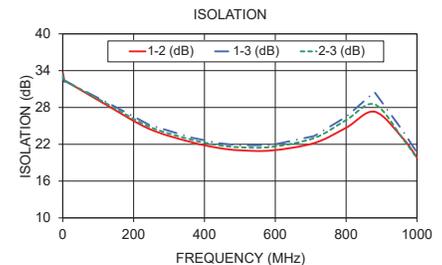
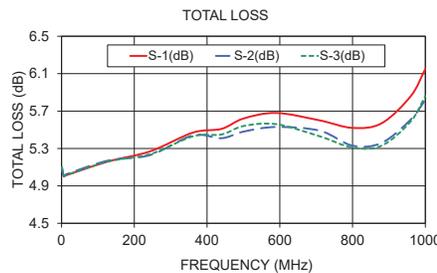
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 4.8 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
f_L - f_U	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
1-1000	35	20	20	18	20	17	0.2	0.5	0.7	1.4	1.0	2.0	3.0	6.0	10	0.2	0.4	0.9

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]

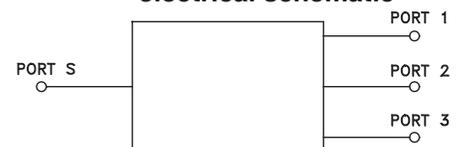
Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)			Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3
	S-1	S-2	S-3		1-2	1-3	2-3					
1.00	5.10	5.09	5.10	0.01	33.57	32.78	33.29	0.07	1.20	1.18	1.18	1.18
4.20	5.02	5.02	5.02	0.00	32.41	32.18	32.26	0.06	1.15	1.13	1.13	1.13
7.00	5.00	5.01	5.01	0.01	32.31	32.19	32.24	0.06	1.14	1.13	1.13	1.13
10.00	5.01	5.02	5.01	0.01	32.25	32.20	32.23	0.08	1.14	1.13	1.13	1.13
127.00	5.16	5.17	5.16	0.01	28.28	28.76	28.53	0.18	1.22	1.16	1.16	1.16
244.00	5.27	5.23	5.24	0.04	24.51	25.17	24.87	0.59	1.36	1.21	1.21	1.21
361.00	5.47	5.44	5.43	0.04	22.37	23.12	22.78	0.36	1.48	1.27	1.27	1.27
440.00	5.51	5.41	5.45	0.11	21.40	22.18	21.86	0.43	1.54	1.30	1.30	1.30
500.00	5.62	5.48	5.54	0.15	21.02	21.83	21.51	0.48	1.57	1.32	1.33	1.32
590.00	5.68	5.53	5.56	0.15	20.99	21.88	21.58	0.43	1.57	1.35	1.36	1.34
710.00	5.60	5.49	5.43	0.17	22.20	23.34	23.02	0.76	1.46	1.37	1.37	1.35
800.00	5.52	5.33	5.31	0.20	24.69	26.47	25.94	1.01	1.30	1.35	1.35	1.33
880.00	5.57	5.36	5.33	0.24	27.31	30.51	28.51	0.98	1.15	1.31	1.30	1.27
960.00	5.86	5.61	5.59	0.28	22.98	24.19	22.90	1.16	1.29	1.24	1.22	1.19
1000.00	6.15	5.82	5.86	0.33	19.85	20.65	19.71	2.67	1.51	1.19	1.16	1.14

1. Total Loss = Insertion Loss + 4.8dB 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.
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