

Coaxial

Power Splitter/Combiner

3 Way-0° 50Ω 2 to 750 MHz

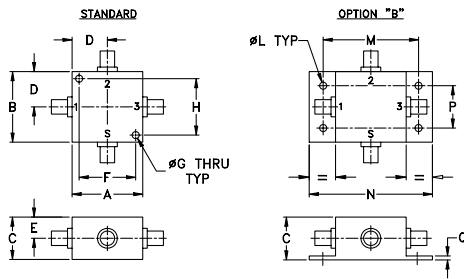
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.5W max.

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

- wideband, 2 to 750 MHz
- low insertion loss, 0.5 dB typ.
- high isolation, 30 dB typ.
- rugged shielded case

Applications

- VHF/UHF
- instrumentation
- communication style

ZFSC-3-1W+
ZFSC-3-1W



BNC version shown
CASE STYLE: J17

Connectors	Model	Price	Qty.
BNC	ZFSC-3-1W+	\$53.95	(1-9)
SMA	ZFSC-3-1W-S+	\$58.95	(1-9)
N-TYPE	ZFSC-3-1W-N(+)	\$58.95	(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.

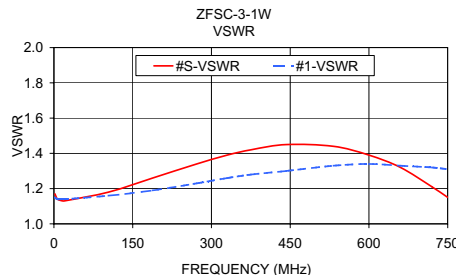
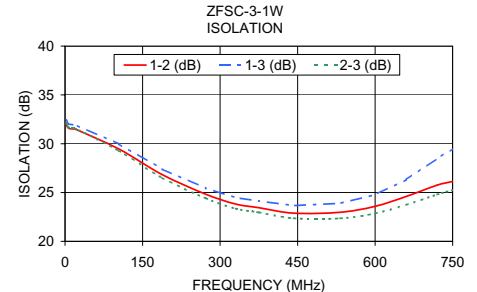
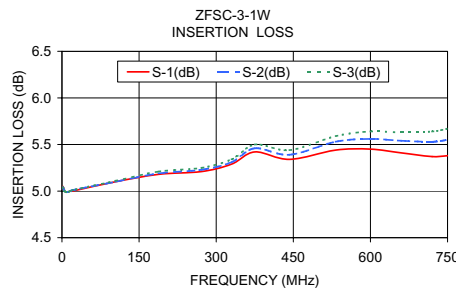
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 4.8 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	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.	L	Max.	M	Max.	U	Max.
2-750	30	20	30	20	25	18	0.4	0.75	0.5	1.0	1.0	1.6	3.0		5.0		7.0	

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)	Insertion Loss (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					
2.00	5.05	5.04	5.04	0.00	31.97	32.43	32.13	0.05	1.17	1.15	1.15	1.15
6.80	4.99	4.99	4.99	0.00	31.59	32.02	31.67	0.02	1.14	1.14	1.15	1.14
16.40	5.00	5.00	5.00	0.00	31.51	31.92	31.59	0.03	1.13	1.14	1.15	1.14
20.00	5.00	5.01	5.01	0.01	31.49	31.94	31.56	0.03	1.13	1.14	1.15	1.14
104.00	5.10	5.10	5.11	0.01	29.46	29.98	29.29	0.06	1.18	1.16	1.16	1.16
188.00	5.18	5.19	5.21	0.02	26.83	27.40	26.51	0.11	1.26	1.19	1.20	1.19
272.00	5.21	5.23	5.25	0.04	24.83	25.45	24.42	0.10	1.34	1.23	1.24	1.23
330.00	5.29	5.31	5.34	0.05	23.82	24.48	23.36	0.09	1.39	1.26	1.27	1.26
375.00	5.42	5.46	5.50	0.08	23.45	24.14	22.97	0.15	1.42	1.28	1.29	1.28
442.50	5.34	5.39	5.44	0.10	22.89	23.66	22.37	0.13	1.45	1.30	1.32	1.31
532.50	5.44	5.53	5.59	0.15	22.98	23.90	22.36	0.11	1.44	1.33	1.35	1.33
600.00	5.45	5.56	5.64	0.19	23.59	24.79	22.87	0.16	1.39	1.34	1.37	1.35
660.00	5.41	5.54	5.63	0.22	24.60	26.31	23.75	0.20	1.32	1.33	1.38	1.36
720.00	5.37	5.53	5.64	0.27	25.76	28.49	24.81	0.37	1.21	1.32	1.38	1.35
750.00	5.38	5.55	5.67	0.29	26.13	29.46	25.26	0.46	1.15	1.31	1.37	1.34



electrical schematic



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