Coaxial

Power Splitter/Combiner

4 Way-0° 50Ω 10 to 500 MHz

ZFSC-4-1W+
ZFSC-4-1W

BNC version shown

CASE STYLE: G15

Connectors	Model	Price	Qty.
BNC	ZFSC-4-1W-BNC(+)	$89.95	(1-9)
SMA	ZFSC-4-1W-S(+)	$84.95	(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.

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.

Coaxial Connections

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

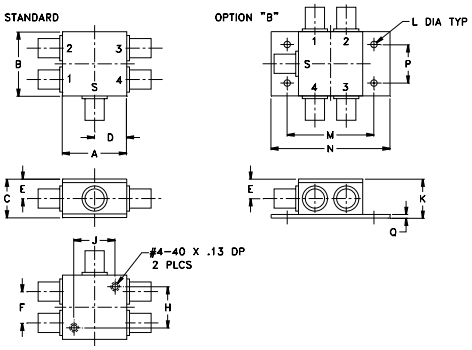
Features

- wideband, 10 to 500 MHz
- good isolation, 23 dB typ.
- rugged, shielded case
- good VSWR, 1.15:1

Applications

- VHF/UHF
- radio communication

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

Splitter Electrical Specifications

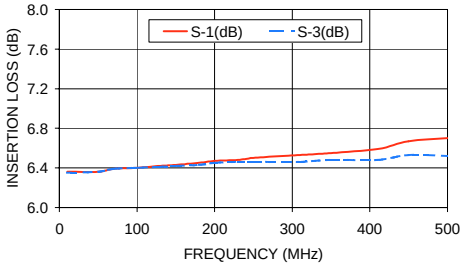
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 6 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
f_L-f_U	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
10-500	23	20	23	20	23	20	0.6	1.5	0.6	1.5	0.6	1.5	4	8	8	0.2	0.3	0.4

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]

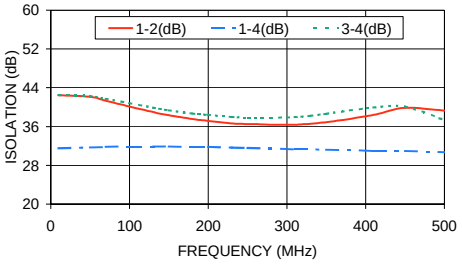
Typical Performance Data

Freq. (MHz)	Insertion Loss (dB)				Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4		1-2	1-4	3-4						
10	6.36	6.35	6.35	6.35	0.01	42.49	31.51	42.51	0.07	1.11	1.04	1.04	1.04	1.04
50	6.36	6.36	6.36	6.36	0.01	42.13	31.71	42.28	0.28	1.11	1.02	1.02	1.03	1.03
70	6.39	6.38	6.39	6.38	0.01	41.32	31.80	41.74	0.38	1.11	1.02	1.02	1.03	1.02
100	6.40	6.40	6.40	6.39	0.01	40.14	31.90	40.81	0.54	1.11	1.02	1.03	1.03	1.03
130	6.42	6.40	6.41	6.41	0.01	38.97	31.90	39.89	0.68	1.11	1.03	1.03	1.03	1.03
150	6.43	6.42	6.42	6.43	0.01	38.33	31.88	39.37	0.78	1.11	1.03	1.03	1.03	1.03
180	6.45	6.43	6.43	6.44	0.02	37.56	31.84	38.69	0.92	1.11	1.03	1.04	1.04	1.04
200	6.47	6.45	6.45	6.47	0.02	37.18	31.81	38.39	1.05	1.11	1.04	1.04	1.04	1.04
230	6.48	6.45	6.46	6.48	0.03	36.66	31.66	37.95	1.16	1.12	1.04	1.05	1.05	1.04
250	6.50	6.46	6.46	6.48	0.04	36.50	31.61	37.84	1.25	1.12	1.04	1.06	1.06	1.05
310	6.53	6.47	6.46	6.52	0.07	36.39	31.33	37.92	1.52	1.13	1.05	1.07	1.08	1.06
350	6.55	6.48	6.48	6.53	0.07	36.90	31.27	38.63	1.74	1.13	1.06	1.08	1.09	1.06
410	6.59	6.49	6.48	6.57	0.12	38.42	30.99	39.94	1.88	1.13	1.07	1.11	1.12	1.07
450	6.67	6.56	6.53	6.63	0.13	39.87	30.96	40.10	2.05	1.13	1.08	1.12	1.13	1.08
500	6.70	6.54	6.52	6.66	0.18	39.29	30.72	37.36	2.17	1.14	1.09	1.14	1.16	1.09

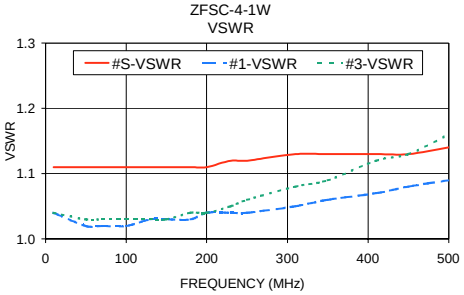
ZFSC-4-1W
INSERTION LOSS



ZFSC-4-1W
ISOLATION



ZFSC-4-1W
VSWR



electrical schematic