Coaxial

Power Splitter/Combiner

5 Way-0° 50Ω 1 to 300 MHz

ZFSC-5-1+
ZFSC-5-1

BNC version shown

CASE STYLE: G1170

Connectors	Model	Price	Qty.
BNC	ZFSC-5-1(+)	$99.95	(1-9)
SMA	ZFSC-5-1-S(+)	$99.95	(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	0.5W 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
PORT 4	4
PORT 5	5

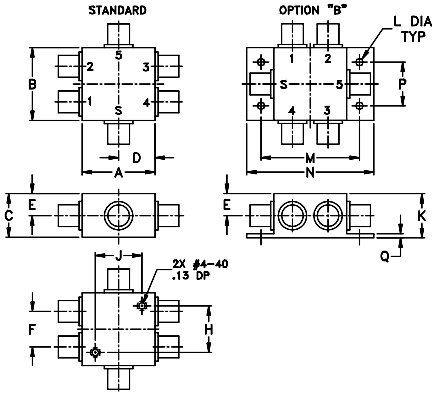
Features

- low insertion loss, 0.6 dB typ.
- excellent amplitude unbalance, 0.3 dB typ.
- rugged shielded case

Applications

- VHF
- instrumentation
- communications system

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

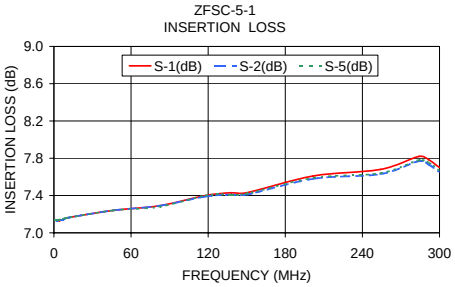
Electrical Specifications

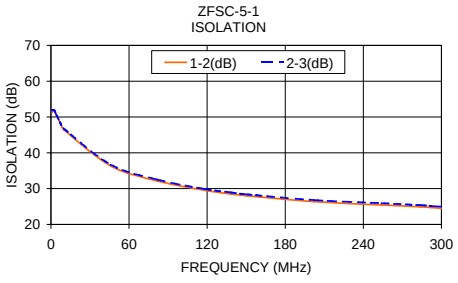
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 7.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
f_L-f_U	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
1-300	25	20	23	18	20	17	0.2	0.5	0.6	1.0	1.5	2.0	2	4	8	0.2	0.3	0.6

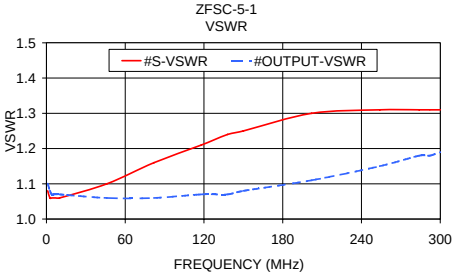
L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U= upper range [f_U/2 to f_U]

Typical Performance Data

Freq. (MHz)	Insertion Loss (dB)					Amp. Unbal. (dB)	Isolation (dB)				Phase Unbal. (deg.)	VSWR S	VSWR OUTPUTS
	S-1	S-2	S-3	S-4	S-5		1-2	2-3	2-5	3-4			
1.00	7.14	7.14	7.15	7.15	7.14	0.00	51.33	51.91	37.56	49.97	0.07	1.08	1.10
2.60	7.13	7.13	7.13	7.13	7.14	0.01	51.90	51.80	39.59	51.00	0.04	1.06	1.08
4.20	7.13	7.14	7.14	7.14	7.14	0.01	50.50	50.57	39.90	49.85	0.04	1.06	1.07
7.00	7.14	7.14	7.14	7.15	7.15	0.00	48.39	48.53	39.74	47.90	0.04	1.06	1.07
10.00	7.16	7.16	7.15	7.16	7.16	0.01	46.46	46.75	39.40	46.14	0.07	1.06	1.07
46.00	7.24	7.24	7.23	7.24	7.24	0.01	36.33	36.72	35.07	36.29	0.24	1.10	1.06
82.00	7.29	7.29	7.28	7.28	7.28	0.01	32.10	32.52	32.12	32.16	0.29	1.16	1.06
118.00	7.40	7.39	7.38	7.37	7.40	0.03	29.53	29.93	30.08	29.63	0.43	1.21	1.07
138.00	7.43	7.41	7.40	7.40	7.41	0.03	28.52	28.95	29.27	28.63	0.52	1.24	1.07
150.00	7.43	7.41	7.41	7.40	7.42	0.03	28.02	28.43	28.86	28.13	0.51	1.25	1.08
202.00	7.61	7.58	7.56	7.55	7.59	0.06	26.36	26.81	27.56	26.48	0.78	1.30	1.11
254.00	7.68	7.63	7.62	7.60	7.64	0.08	25.44	25.94	27.07	25.58	0.98	1.31	1.15
284.00	7.82	7.77	7.76	7.73	7.78	0.09	24.91	25.38	26.83	25.00	1.09	1.31	1.18
292.00	7.78	7.73	7.71	7.68	7.75	0.10	24.72	25.17	26.71	24.79	1.18	1.31	1.18
300.00	7.70	7.65	7.62	7.61	7.67	0.10	24.51	24.95	26.55	24.56	1.18	1.31	1.19







electrical schematic

REV. A
M101034
ZFSC-5-1
HY/TD/CP
090827