

Coaxial

Power Splitter/Combiner

5 Way-0° 50Ω

1 to 300 MHz

ZFSC-5-1+
ZFSC-5-1


BNC version shown

CASE STYLE: G1170

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
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

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)

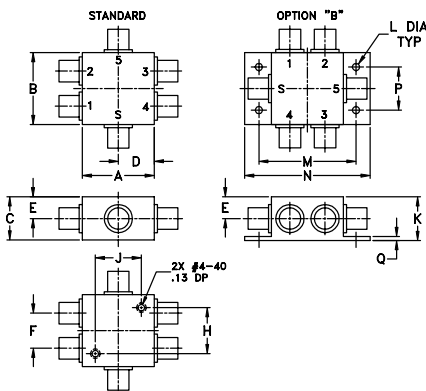
The +suffix identifies RoHS Compliance. See our web site
for RoHS Compliance methodologies and qualifications.

Splitter 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
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
f _l -f _u	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]

Outline Drawing



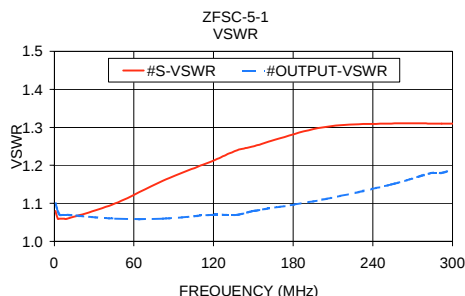
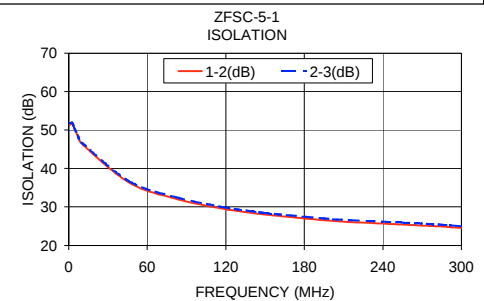
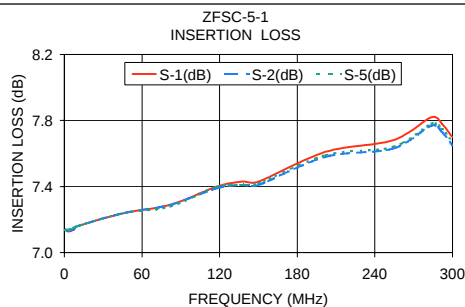
Outline Dimensions (inch/mm)

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

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



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