

Power Splitter/Combiner

ZFSC-5-1+

5 Way-0° 50Ω 1 to 300 MHz

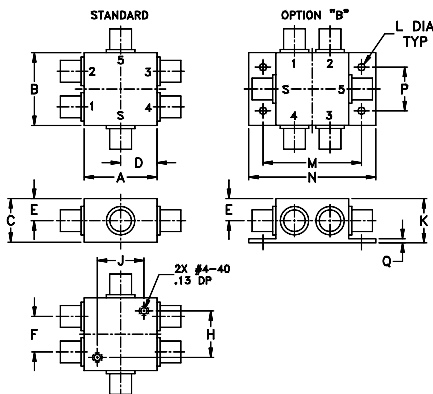
Maximum Ratings

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.
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

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

Features

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

Applications

- VHF
- instrumentation
- communications system



BNC version shown
CASE STYLE: G1170

Connectors	Model
BNC	ZFSC-5-1+
SMA	ZFSC-5-1-S+
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 7.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	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.
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]

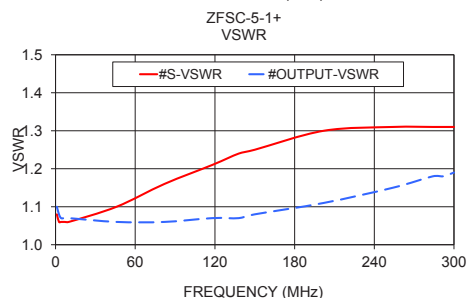
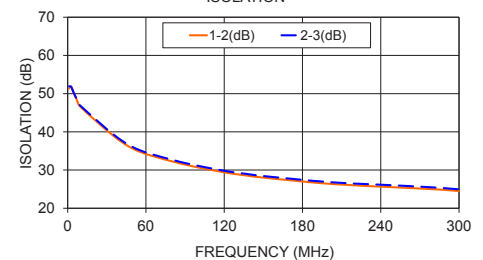
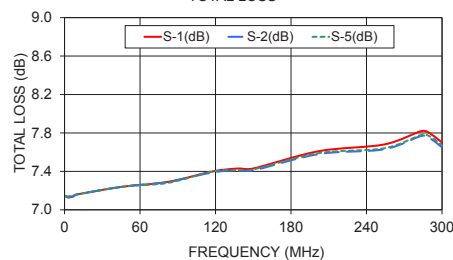
Typical Performance Data

Freq. (MHz)	Total Loss ¹ (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	

ZFSC-5-1+
TOTAL LOSS

1. Total Loss = Insertion Loss + 7dB splitter loss.

ZFSC-5-1+
ISOLATION



electrical schematic



Notes

- A. 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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