

Power Splitter/Combiner

ZFSC-4-1W+

4 Way-0° 50Ω 10 to 500 MHz

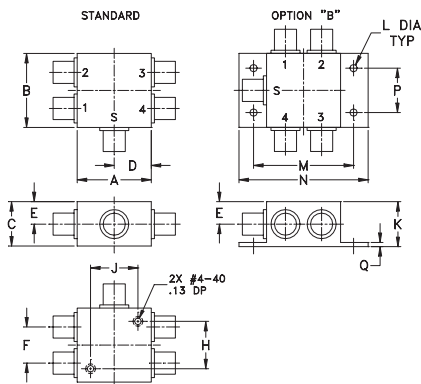
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.250W 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

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

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

Applications

- VHF/UHF
- radio communication



BNC version shown
CASE STYLE: G15

Connectors	Model
BNC	ZFSC-4-1W-BNC+
SMA	ZFSC-4-1W-S+
BRACKET (OPTION "B")	

+RoHS Compliant

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

Electrical Specifications

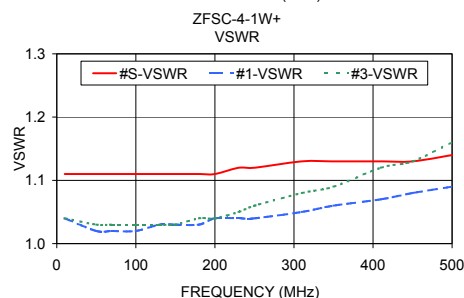
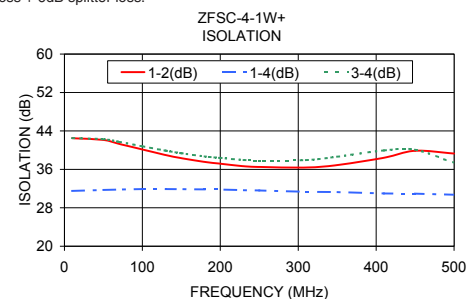
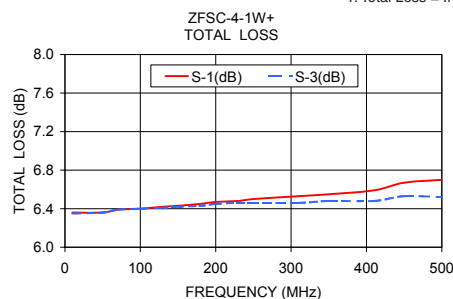
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 6.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L			L		
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
10-500	23	20	23	20	23	20	0.6	1.5	0.6	1.5	0.6	1.5	4	8	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)	Total Loss ¹ (dB)				Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR				
	S-1	S-2	S-3	S-4		1-2	1-4	3-4		S	1	2	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	0.00	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

1. Total Loss = Insertion Loss + 6dB splitter loss.



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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