

Power Splitter/Combiner

4 Way-0° 50Ω 10 to 500 MHz

ZFSC-4-1W+



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

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

Features

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

Applications

- VHF/UHF
- radio communication

Electrical Specifications

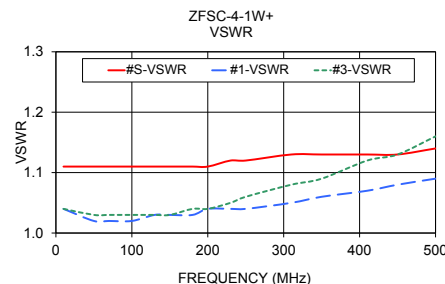
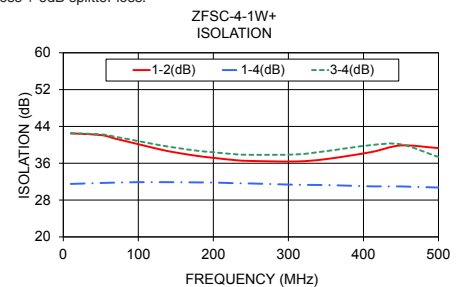
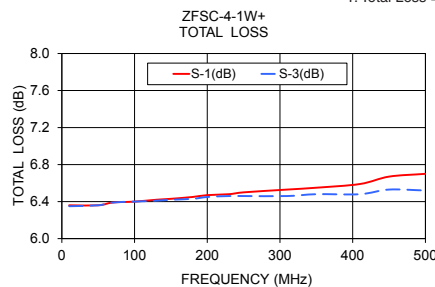
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 6.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L		M		U	
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
f _L -f _U																		
10-500	23	20	23	20	23	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

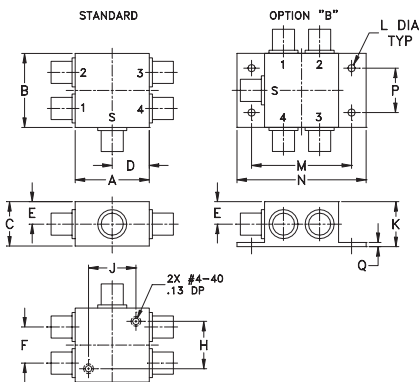
1. Total Loss = Insertion Loss + 6dB splitter loss.



electrical schematic



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

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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