

Power Splitter/Combiner

ZFSC-4-3+

4 Way-0° 50Ω 10 to 300 MHz

Maximum Ratings

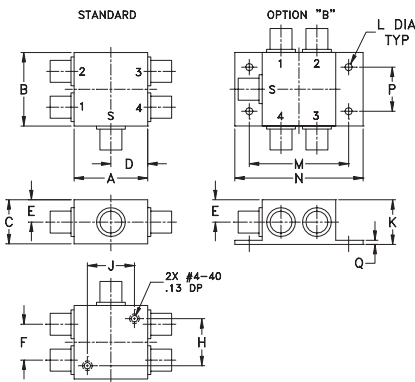
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.250W max.

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 300 MHz
- high isolation, 38 dB typ.
- rugged shielded case

Applications

- VHF
- radio communication



Generic photo used for illustration purposes only

CASE STYLE: G15

Connectors	Model
BNC	ZFSC-4-3-BNC+
SMA	ZFSC-4-3-S+
BRACKET (OPTION "B")	

+RoHS Compliant

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

Electrical Specifications

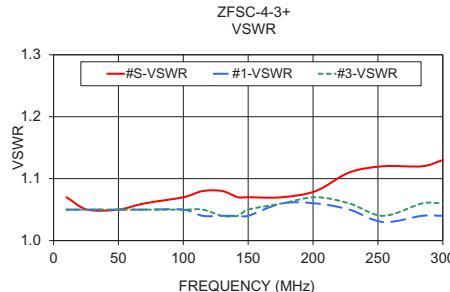
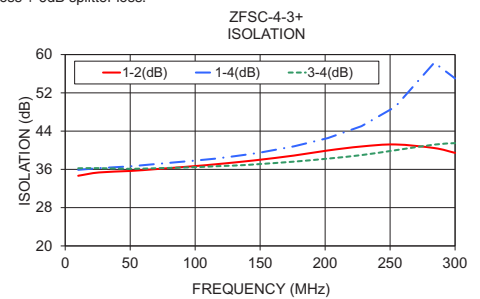
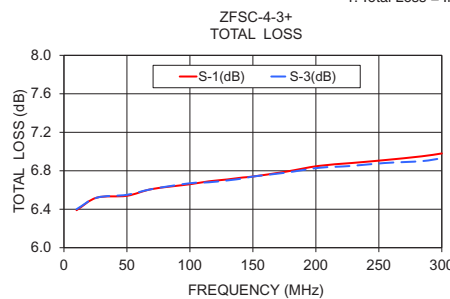
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 6.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
f_c - f_u																		
10-300	32	28	38	30	38	30	0.5	0.8	0.6	0.9	0.9	1.2	4	6	8	0.1	0.1	0.2

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 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4		1-2	1-4	3-4						
10.00	6.39	6.41	6.40	6.39	0.02	34.67	35.91	36.23	0.09	1.07	1.05	1.05	1.05	1.05
26.00	6.52	6.54	6.52	6.53	0.02	35.36	36.25	36.26	0.18	1.05	1.05	1.05	1.05	1.05
50.00	6.54	6.55	6.55	6.55	0.01	35.67	36.63	36.12	0.27	1.05	1.05	1.05	1.05	1.05
70.00	6.61	6.62	6.61	6.61	0.01	36.06	37.13	36.24	0.43	1.06	1.05	1.05	1.05	1.05
100.00	6.66	6.67	6.67	6.67	0.01	36.69	37.84	36.46	0.67	1.07	1.05	1.05	1.05	1.05
115.00	6.69	6.69	6.68	6.69	0.01	37.05	38.23	36.65	0.75	1.08	1.04	1.04	1.05	1.05
130.00	6.71	6.71	6.70	6.72	0.01	37.44	38.74	36.80	0.90	1.08	1.04	1.04	1.04	1.04
142.00	6.73	6.73	6.72	6.74	0.01	37.78	39.18	36.97	0.94	1.07	1.04	1.04	1.04	1.04
150.00	6.74	6.73	6.74	6.75	0.02	38.02	39.51	37.12	0.98	1.07	1.04	1.04	1.05	1.05
176.00	6.79	6.79	6.78	6.80	0.02	38.89	40.81	37.62	1.14	1.07	1.06	1.06	1.06	1.06
202.00	6.85	6.83	6.83	6.86	0.03	39.95	42.54	38.25	1.25	1.08	1.06	1.07	1.07	1.07
228.00	6.88	6.85	6.85	6.89	0.04	40.79	45.03	38.99	1.42	1.11	1.05	1.05	1.06	1.06
254.00	6.91	6.88	6.88	6.92	0.04	41.21	49.09	40.00	1.62	1.12	1.03	1.04	1.04	1.04
284.00	6.95	6.92	6.90	6.96	0.06	40.46	58.31	41.18	1.83	1.12	1.04	1.05	1.06	1.05
300.00	6.98	6.93	6.93	7.00	0.07	39.45	55.01	41.49	1.79	1.13	1.04	1.06	1.06	1.05

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



electrical schematic



Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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