Coaxial

Power Splitter/Combiner

ZFSC-12-11+
ZFSC-12-11

12 Way-0° 50Ω 10 to 300 MHz

BNC version shown

CASE STYLE: R67

Connectors	Model
BNC	ZFSC-12-11(+)
SMA	ZFSC-12-11-S(+)

+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	0.87W max.

Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections

SUM PORT	S(COM)
PORT 1,2,3,.....,12	1,2,3.....,12

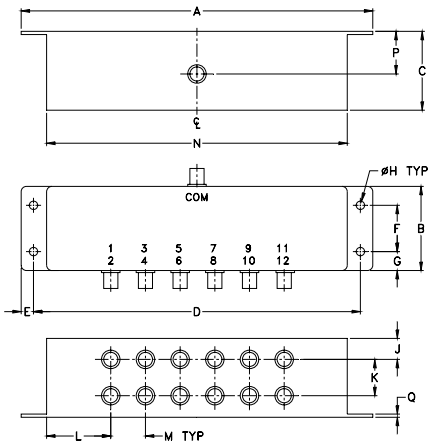
Features

- high isolation, 33 dB typ.
- excellent amplitude unbalance, 0.3 dB typ.

Applications

- VHF
- instrumentation
- defense and federal communications

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F	G	H
6.69	1.60	1.50	6.22	.24	.88	.36	.160
169.93	40.64	38.10	157.99	6.10	22.35	9.14	4.06

J	K	L	M	N	P	Q	wt.
.40	.69	1.22	.66	5.72	.81	.06	grams
10.16	17.53	30.99	16.76	145.29	20.57	1.52	310.0

Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 10.8 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
f_L-f_U	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
10-300	28	20	33	25	28	20	1.1	1.3	1.1	1.5	1.5	1.8	2	4	6	0.2	0.3	0.4

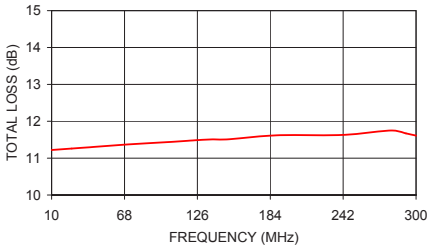
L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U= upper range [f_U/2 to f_U]

Typical Performance Data

Freq. (MHz)	Total Loss[1] (dB)	Amplitude Unbalance (dB)	Isolation (dB)		Phase Unbalance (deg.)	VSWR S	VSWR 12
			1-2	2-4			
10.00	11.22	0.02	50.48	52.93	0.22	1.10	1.15
26.00	11.26	0.02	43.29	46.46	0.32	1.09	1.14
42.00	11.30	0.03	39.90	43.08	0.49	1.10	1.14
70.00	11.37	0.03	36.18	39.29	0.80	1.12	1.13
100.00	11.43	0.05	33.62	36.88	1.02	1.14	1.12
109.00	11.45	0.06	33.03	36.36	1.19	1.15	1.12
118.00	11.47	0.07	32.49	35.92	1.25	1.16	1.11
127.00	11.49	0.07	32.03	35.55	1.34	1.16	1.11
138.00	11.51	0.08	31.53	35.18	1.40	1.17	1.11
150.00	11.51	0.08	31.00	34.82	1.62	1.18	1.11
189.00	11.62	0.11	29.68	34.06	2.05	1.20	1.10
241.00	11.63	0.17	28.40	33.57	2.83	1.21	1.11
280.00	11.75	0.21	27.36	33.15	3.42	1.23	1.13
292.00	11.67	0.24	27.01	33.14	3.69	1.24	1.13
300.00	11.61	0.24	26.77	33.12	3.75	1.25	1.14

1. Total Loss = Insertion Loss + 10.8dB splitter loss.

ZFSC-12-11
TOTAL LOSS



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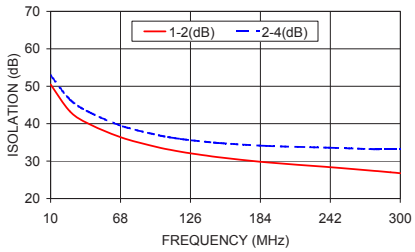
ISOLATION



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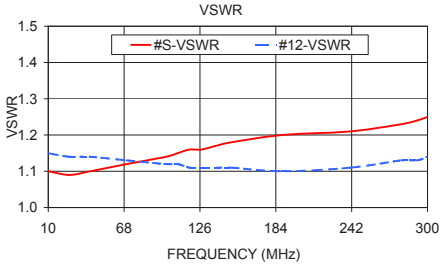
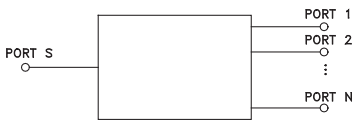
VSWR



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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