

Coaxial Power Splitter/Combiner

ZFSC-12-11+ ZFSC-12-11

12 Way-0° 50Ω 10 to 300 MHz

Maximum Ratings

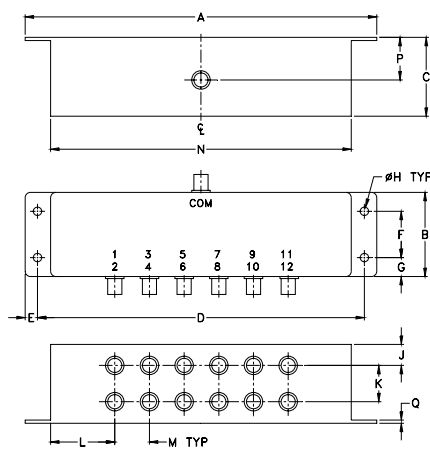
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.87W max.

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

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

Features

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

Applications

- VHF
- instrumentation
- defense and federal communications



BNC version shown
CASE STYLE: R67

Connectors	Model	Price	Qty.
BNC	ZFSC-12-11(+)	\$174.95	(1-9)
SMA	ZFSC-12-11-S(+)	\$209.95	(1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

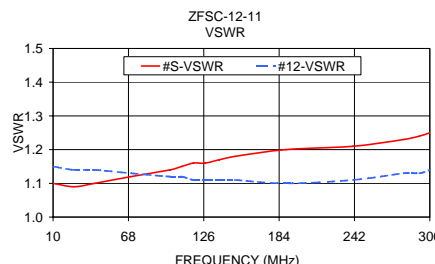
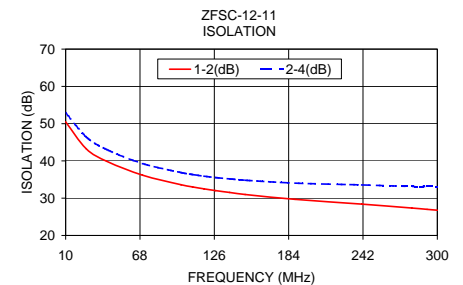
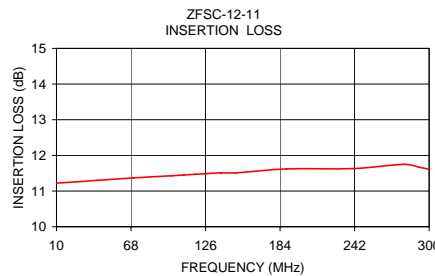
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 10.8 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_L - f_U	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)	Insertion Loss (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



electrical schematic



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