

Coaxial Power Splitter/Combiner

12 Way-0° 50Ω

10 to 300 MHz

ZFSC-12-11+ ZFSC-12-11



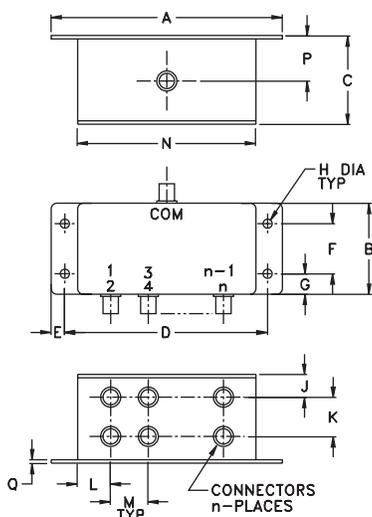
Maximum Ratings

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.

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
7.11	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	500

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.

Splitter 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

Frequency (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

