Coaxial

Power Splitter/Combiner

ZFSC-16-1-75+

16 Way-0° 75Ω 1 to 150 MHz

Maximum Ratings

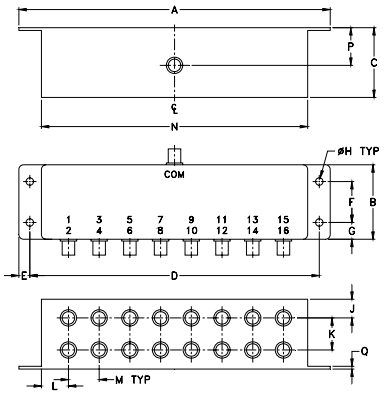
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.87W max.

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

Coaxial Connections

SUM PORT	S(COM)
PORT 1,2,3,.....,16	1,2,3,.....,16

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	.55	.66	5.72	.81	.06	grams
10.16	17.53	13.97	16.76	145.29	20.57	1.52	320

Features

- low insertion loss, 0.7 dB typ.
- high isolation, 30 dB typ.
- excellent amplitude unbalance, 0.2 dB typ.
- rugged shielded case

Applications

- HF/VHF
- communication systems
- instrumentation

CASE STYLE: R30

Connectors	Model	Price	Qty.
BNC	ZFSC-16-1-75+	$182.95	(1-9)

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

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Electrical Specifications

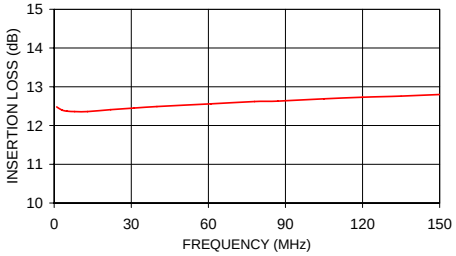
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 12 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
f_L-f_U	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
1-150	30	25	30	25	25	20	0.8	1.1	0.7	1.1	1.0	1.3	3	6	10	0.4	0.2	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 1
	S-1		Adjacent	Opposite			
1.00	12.48	0.26	39.02	35.90	1.42	1.31	1.22
3.00	12.40	0.18	42.46	39.97	0.90	1.28	1.14
5.00	12.37	0.15	44.14	41.72	0.75	1.29	1.10
8.00	12.36	0.14	45.18	43.00	0.65	1.30	1.08
13.00	12.36	0.13	45.36	43.42	0.66	1.30	1.07
22.00	12.41	0.11	45.22	42.83	0.75	1.29	1.06
31.00	12.45	0.07	44.91	41.43	0.84	1.29	1.07
40.00	12.49	0.07	45.16	40.14	0.85	1.28	1.08
61.00	12.56	0.08	46.17	37.07	0.95	1.25	1.11
78.00	12.62	0.07	47.21	35.06	0.98	1.22	1.13
87.00	12.63	0.10	48.26	34.15	0.94	1.20	1.14
105.00	12.69	0.10	50.55	32.42	0.99	1.17	1.15
120.00	12.73	0.11	51.55	31.15	0.96	1.15	1.17
135.00	12.76	0.13	52.04	30.00	1.07	1.13	1.19
150.00	12.80	0.14	50.80	28.97	1.18	1.13	1.21

ZFSC-16-1-75+
INSERTION LOSS



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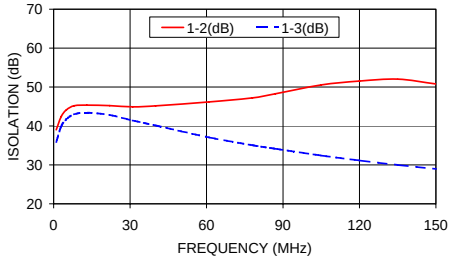
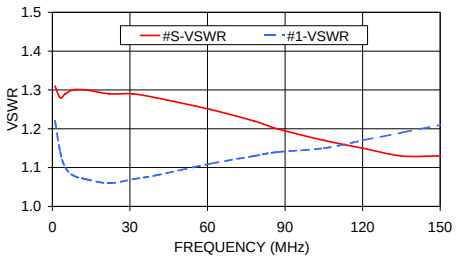
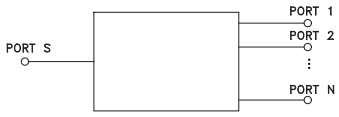
ISOLATION



ZFSC-16-1-75+
VSWR



electrical schematic



REV. B
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ZFSC-16-1-75+
HY/TD/CP/AM
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