Coaxial

Power Splitter/Combiner

ZFSC-10-1+
ZFSC-10-1

10 Way-0° 50Ω 0.5 to 100 MHz

BNC version shown

CASE STYLE: RR93

Connectors	Model	Price	Qty.
SMA	ZFSC-10-1-S(+)	Contact Sales Dept.	

+ 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.

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
PORT 1,2,3,.....,10	1,2,3,.....,10

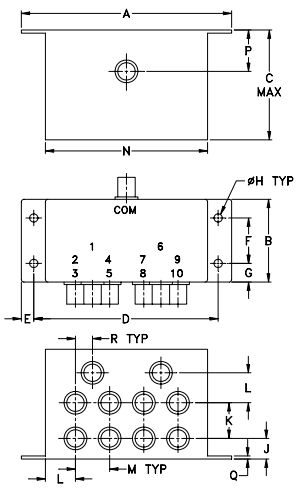
Features

- low insertion loss, 0.4 dB typ.
- high isolation, 30 dB typ.
- rugged shielded case

Applications

- VF/VHF
- radio communication
- instrumentation

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F	G	H	
4.06	1.60	2.125	3.56	.25	.88	.36	.160	
103.12	40.64	53.98	90.42	6.35	22.35	9.14	4.06	
J	K	L	M	N	P	Q	R	wt.
.40	.69	.58	.66	3.13	.80	.06	.33	grams
10.16	17.53	14.73	16.76	79.50	20.32	1.52	8.38	350

Electrical Specifications

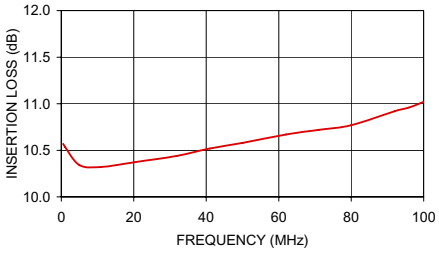
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 10 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
f_L-f_U	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
0.5-100	28	20	30	24	27	20	0.5	0.8	0.4	1.0	0.8	1.5	3	6	10	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 1
			1-2	1-5			
0.50	10.57	0.05	31.20	24.61	0.10	1.24	1.57
1.00	10.54	0.04	33.11	28.09	0.11	1.14	1.37
5.00	10.34	0.04	35.75	35.27	0.38	1.09	1.18
11.00	10.32	0.02	35.66	36.98	0.64	1.12	1.14
20.00	10.37	0.02	33.61	34.11	1.14	1.18	1.13
32.00	10.44	0.01	30.89	30.87	1.72	1.27	1.13
41.00	10.52	0.02	29.24	29.11	2.20	1.35	1.13
50.00	10.58	0.03	27.88	27.70	2.59	1.42	1.13
62.00	10.67	0.03	26.39	26.22	3.16	1.52	1.14
71.00	10.72	0.05	25.48	25.30	3.58	1.60	1.14
80.00	10.77	0.05	24.69	24.50	4.01	1.67	1.14
92.00	10.92	0.07	23.84	23.65	4.53	1.76	1.14
96.00	10.96	0.08	23.58	23.39	4.78	1.79	1.14
100.00	11.02	0.08	23.36	23.17	4.97	1.82	1.14

ZFSC-10-1+
INSERTION LOSS



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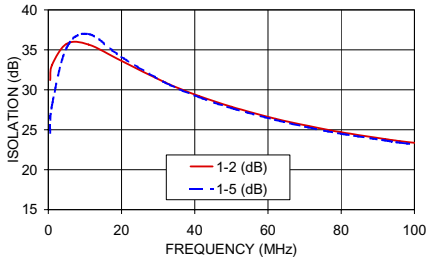
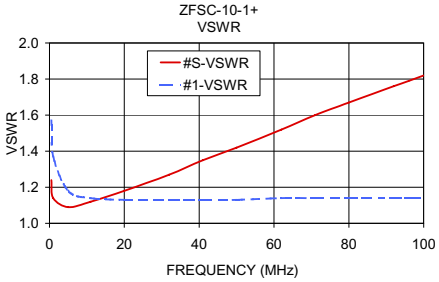
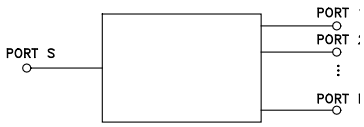
ISOLATION



ZFSC-10-1+
VSWR



electrical schematic



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