Coaxial

Power Splitter/Combiner

ZFSCJ-2-3

2 Way-180° 50Ω 5 to 300 MHz

BNC version shown

CASE STYLE: K18

Connectors	Model	Price	Qty.
BNC	ZFSCJ-2-3	$49.95	(1-9)
SMA	ZFSCJ-2-3-S(+)	$54.95	(1-9)
N-TYPE	ZFSCJ-2-3-N	$54.95	(1-9)
BRACKET (OPTION"B")		$2.50	(1+)

+ 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	0.125W max.

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

Features

- low insertion loss, 1.0 dB typ.
- high isolation, 33 dB typ.
- rugged shielded case

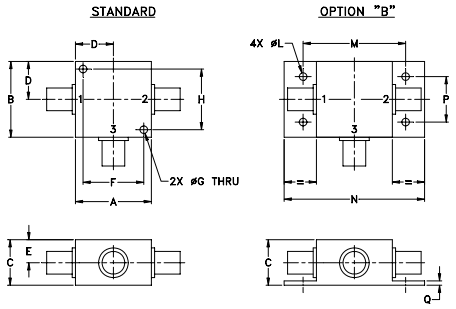
Applications

- VHF
- signal processing

Coaxial Connections

SUM PORT	3
PORT 1	1
PORT 2	2

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F	G	H
1.25	1.25	.75	.63	.38	1.00	.125	1.000
31.75	31.75	19.05	16.00	9.65	25.40	3.18	25.40

J	K	L	M	N	P	Q	wt
--	--	.125	1.688	2.18	.75	.07	grams
--	--	3.18	42.88	55.37	19.05	1.78	70.0

For bracket version, Option B dimension "C" changes from 0.75 to 0.94 inch when connectors are Type N.

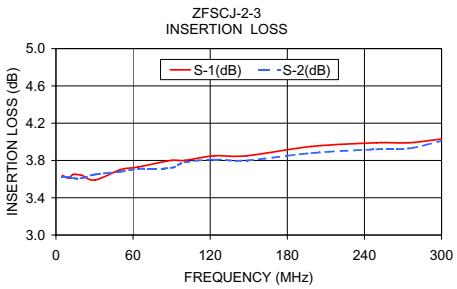
Electrical Specifications

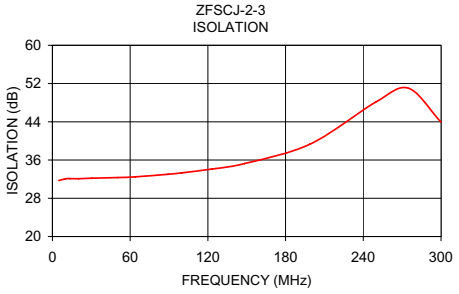
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
f_L-f_U	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
5-300	30	20	33	25	30	18	1.0	1.5	1.0	1.5	1.0	1.5	2	4	6	0.15	0.2	0.5

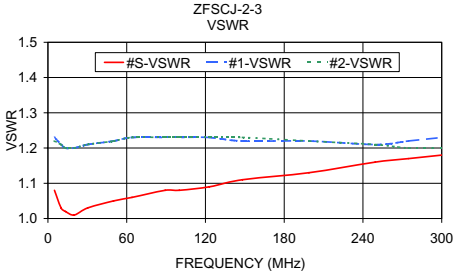
L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U= upper range [f_U/2 to f_U]

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
5.00	3.64	3.62	0.02	31.73	179.50	1.08	1.23	1.22
10.00	3.61	3.62	0.01	32.06	179.50	1.03	1.21	1.21
13.40	3.65	3.61	0.04	32.11	179.40	1.02	1.20	1.20
20.00	3.64	3.61	0.03	32.09	179.40	1.01	1.20	1.20
30.30	3.59	3.65	0.06	32.20	179.30	1.03	1.21	1.21
50.00	3.70	3.68	0.02	32.34	179.10	1.05	1.22	1.22
64.00	3.73	3.71	0.02	32.48	179.00	1.06	1.23	1.23
89.30	3.80	3.72	0.08	33.03	178.80	1.08	1.23	1.23
100.00	3.80	3.78	0.02	33.32	178.70	1.08	1.23	1.23
123.00	3.85	3.81	0.04	34.12	178.60	1.09	1.23	1.23
148.30	3.85	3.80	0.05	35.26	178.40	1.11	1.22	1.23
198.90	3.95	3.88	0.07	39.32	178.10	1.13	1.22	1.22
249.40	3.99	3.92	0.07	48.08	177.80	1.16	1.21	1.21
274.70	3.99	3.93	0.06	51.04	177.70	1.17	1.22	1.20
300.00	4.03	4.01	0.02	43.94	177.50	1.18	1.23	1.20







electrical schematic