

Coaxial

# Power Splitter/Combiner

## ZFSC-2-6+

2 Way-0° 50Ω 0.002 to 60 MHz



BNC version shown

CASE STYLE: K18

Connectors	Model	Price	Qty.
BNC	ZFSC-2-6+	\$51.95	(1-9)
SMA	ZFSC-2-6-S+	\$56.95	(1-9)
N-TYPE	ZFSC-2-6-N+	\$56.95	(1-9)
BRACKET (OPTION "B")		\$5.00	(1+)

### 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.

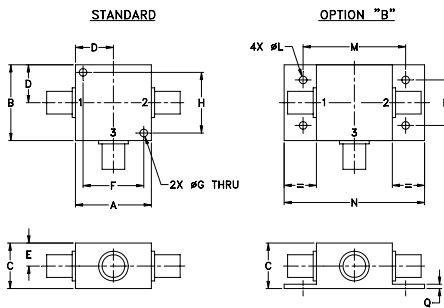
\* At low range frequency band ( $f_L$  to  $10 f_L$ ), linearly derate maximum input power by 13 dB typ.

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

### 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 option B with N-type connectors, dimension "C" increases to 0.94 inches.

### Features

- low insertion loss, 0.3 dB typ.
- excellent isolation, 30 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 0.2 deg. typ.
- rugged shielded case

### Applications

- HF
- ham radio
- defense communications

### 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.						
0.002-60	27	20	30	20	27	20	0.3	0.6	0.3	0.6	0.6	1.0	2	3	4	0.15	0.20	0.30

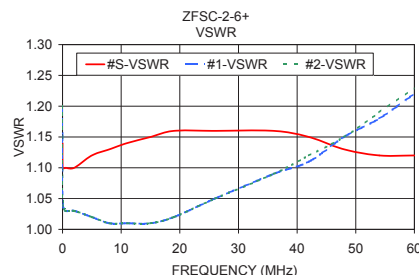
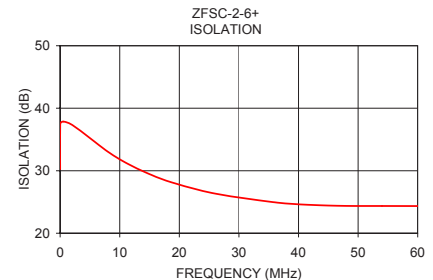
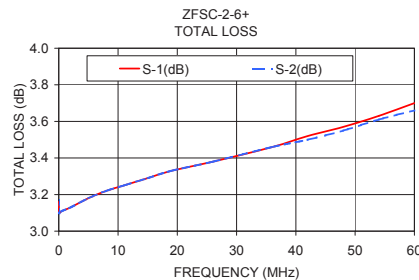
L = low range [ $f_L$  to  $10 f_L$ ] M = mid range [ $10 f_L$  to  $f_U/2$ ] U = upper range [ $f_U/2$  to  $f_U$ ]

\*\* Isolation specified to 0.006 MHz

### Typical Performance Data

Frequency (MHz)	Total Loss <sup>1</sup> (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
0.002	3.16	3.17	0.00	30.24	0.10	1.14	1.20	1.20
0.02	3.10	3.10	0.00	37.52	0.05	1.10	1.04	1.04
0.51	3.11	3.11	0.00	37.86	0.06	1.10	1.03	1.03
2.00	3.13	3.13	0.00	37.35	0.06	1.10	1.03	1.03
5.00	3.18	3.18	0.00	35.22	0.06	1.12	1.02	1.02
8.00	3.22	3.22	0.00	33.04	0.05	1.13	1.01	1.01
11.00	3.25	3.25	0.00	31.28	0.05	1.14	1.01	1.01
15.00	3.29	3.29	0.00	29.45	0.05	1.15	1.01	1.01
19.00	3.33	3.33	0.00	28.06	0.04	1.16	1.02	1.02
26.00	3.38	3.38	0.00	26.35	0.04	1.16	1.05	1.05
36.00	3.46	3.46	0.01	24.95	0.06	1.16	1.09	1.09
42.00	3.52	3.50	0.01	24.54	0.08	1.15	1.11	1.12
48.00	3.57	3.55	0.02	24.37	0.12	1.13	1.15	1.15
54.00	3.63	3.61	0.02	24.36	0.16	1.12	1.18	1.19
60.00	3.70	3.66	0.03	24.35	0.22	1.12	1.22	1.23

1. Total Loss = Insertion Loss + 3dB splitter loss.



### electrical schematic



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