

# Power Splitter/Combiner

## ZFSC-4-175W+

4 Way-0° 75Ω 5 to 1000 MHz



Generic photo used for illustration purposes only

### 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	0.5W max.
Permanent damage may occur if any of these limits are exceeded.	

### Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2
PORT 3	3
PORT 4	4

### Features

- wideband, 5 to 1000MHz
- high isolation, 36 dB typ.

### Applications

- VHF/UHF
- cellular
- transmitters/receivers
- communication systems

CASE STYLE: G15

Connectors Model  
 BNC ZFSC-4-175W+  
 BRACKET(OPTION "B")

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

### Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 6.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	
5-1000	34	22	36	22	27	20	0.5	0.8	0.5	1.2	0.9	1.9	1	3	5	0.2	0.2	0.5

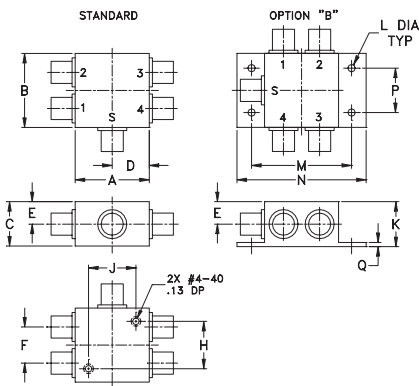
L = low range [ $f_L$  to  $10 f_L$ ] M = mid range [ $10 f_L$  to  $f_U/2$ ] U = upper range [ $f_U/2$  to  $f_U$ ]

### Typical Performance Data

Freq. (MHz)	Total Loss <sup>1</sup> (dB)				Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4		1-2	1-4	3-4						
5.00	6.50	6.50	6.50	6.50	0.01	30.86	34.90	29.99	0.08	1.05	1.25	1.25	1.25	1.25
50.00	6.51	6.50	6.50	6.50	0.02	42.15	36.85	44.00	0.08	1.04	1.31	1.36	1.36	1.35
110.00	6.56	6.55	6.55	6.55	0.01	38.96	35.85	39.79	0.09	1.09	1.41	1.39	1.41	1.41
200.00	6.59	6.58	6.57	6.58	0.02	35.94	35.13	36.69	0.16	1.17	1.43	1.38	1.39	1.40
290.00	6.62	6.60	6.61	6.60	0.02	34.18	35.08	34.85	0.29	1.26	1.41	1.36	1.38	1.38
350.00	6.64	6.63	6.62	6.63	0.02	33.19	35.41	33.65	0.36	1.29	1.37	1.33	1.37	1.35
440.00	6.72	6.69	6.67	6.68	0.05	31.61	36.45	31.58	0.41	1.33	1.34	1.31	1.33	1.34
500.00	6.76	6.72	6.71	6.72	0.05	30.34	37.40	29.92	0.45	1.30	1.30	1.26	1.31	1.31
570.00	6.79	6.75	6.74	6.74	0.05	28.79	38.31	28.13	0.42	1.27	1.28	1.25	1.28	1.30
605.00	6.78	6.76	6.75	6.74	0.04	28.03	38.33	27.29	0.51	1.26	1.27	1.24	1.28	1.30
710.00	6.87	6.83	6.82	6.82	0.06	26.38	35.74	25.41	0.64	1.17	1.28	1.26	1.28	1.28
815.00	7.00	6.95	6.94	6.93	0.07	25.73	32.14	24.55	0.76	1.06	1.32	1.31	1.30	1.31
850.00	7.03	6.98	6.98	6.96	0.07	25.76	31.10	24.52	0.91	1.10	1.35	1.31	1.31	1.31
910.00	7.12	7.09	7.07	7.06	0.06	26.28	29.65	24.81	0.94	1.14	1.40	1.35	1.35	1.37
1000.00	7.29	7.25	7.24	7.21	0.08	28.14	28.09	25.90	1.10	1.23	1.46	1.36	1.39	1.40

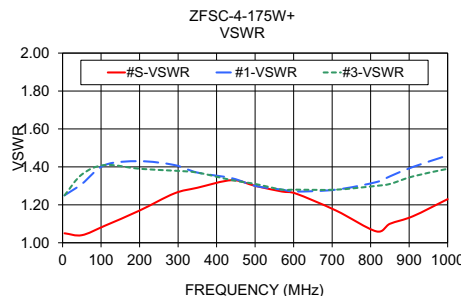
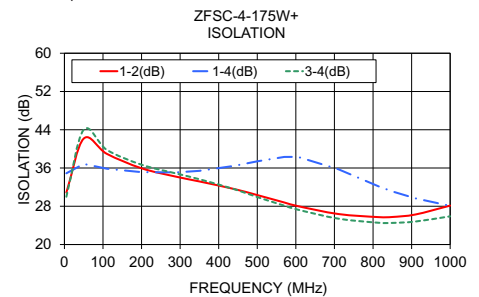
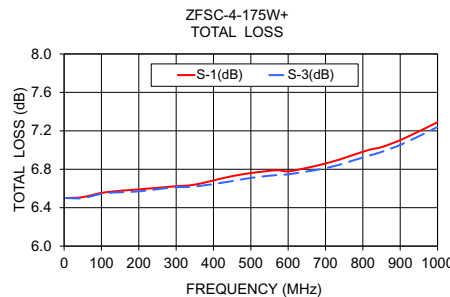
1. Total Loss = Insertion Loss + 6dB splitter loss.

### Outline Drawing

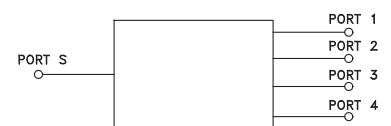


### Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
1.25	1.25	.75	.63	.38	.61	--	.80
31.75	31.75	19.05	16.00	9.65	15.49	--	20.32
J	K	L	M	N	P	Q	wt
.80	.76	.125	1.688	2.18	.75	.07	grams
20.32	19.30	3.18	42.88	55.37	19.05	1.78	85.0



### electrical schematic



### Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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