

Engineering Development Model

Power Splitter/Combiner

ZFSC-ED2876

2 Way-0°

Important Note

This model has been designed, built and tested in our engineering department. Performance data represents model capability. At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.



Please click "Back", and then click "Contact Us" for Applications support.

CASE STYLE : K18

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C					
Parameter		Min.	Typ.	Max.	Units
Frequency		10		4000	MHz
Isolation	10-100 MHz		18		dB
	100-2000 MHz		18		dB
	2000-4000 MHz		20		dB
Insertion loss above 3 dB	10-100 MHz		0.55		dB
	100-2000 MHz		0.6		dB
	2000-4000 MHz		0.8		dB
Phase Unbalance	10-100 MHz		0.01		Deg
	100-2000 MHz		0.02		Deg
	2000-4000 MHz		0.40		Deg
Amplitude Unbalance	10-100 MHz		0.01		dB
	100-2000 MHz		0.02		dB
	2000-4000 MHz		0.10		dB
VSWR	SUM Port		1.65		(:1)
	OUT Ports		1.40		(:1)

MAXIMUM RATINGS	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C

COAXIAL CONNECTIONS	
SUM PORT	3
PORT 1	1
PORT 2	2

Functional Diagram



2 Way-0° Power Splitter/Combiner

ZFSC-ED2876

Typical Performance Data

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	ISOLATION (dB)	PHASE UNBAL. (Deg.)	FREQ. (MHz)	VSWR (:1)		
	S-1	S-2					S	1	2
10.0	3.53	3.53	0.00	18.72	0.00	10.0	1.99	1.56	1.56
20.0	3.53	3.53	0.00	18.72	0.02	20.0	1.99	1.56	1.56
30.0	3.53	3.54	0.00	18.69	0.00	30.0	1.99	1.56	1.56
40.0	3.54	3.54	0.00	18.69	0.00	40.0	1.99	1.56	1.56
50.0	3.54	3.54	0.00	18.68	0.00	50.0	1.99	1.56	1.56
60.0	3.54	3.54	0.00	18.69	0.00	60.0	1.99	1.56	1.56
70.0	3.54	3.54	0.00	18.71	0.00	70.0	1.98	1.56	1.56
80.0	3.54	3.54	0.00	18.72	0.00	80.0	1.98	1.56	1.56
90.0	3.55	3.54	0.00	18.74	0.00	90.0	1.98	1.56	1.56
100.0	3.55	3.55	0.00	18.75	0.01	100.0	1.98	1.56	1.56
200.0	3.55	3.55	0.00	18.86	0.00	200.0	1.96	1.56	1.56
300.0	3.55	3.55	0.00	18.94	0.01	300.0	1.94	1.55	1.55
400.0	3.54	3.54	0.01	18.97	0.00	400.0	1.91	1.54	1.54
500.0	3.53	3.52	0.01	18.94	0.00	500.0	1.87	1.52	1.52
600.0	3.51	3.50	0.01	18.86	0.01	600.0	1.83	1.49	1.49
700.0	3.49	3.48	0.01	18.79	0.00	700.0	1.78	1.47	1.47
800.0	3.47	3.46	0.01	18.75	0.01	800.0	1.74	1.44	1.44
900.0	3.45	3.43	0.02	18.75	0.01	900.0	1.68	1.41	1.41
1000.0	3.43	3.41	0.01	18.74	0.02	1000.0	1.63	1.38	1.38
1100.0	3.41	3.39	0.02	18.72	0.01	1100.0	1.58	1.35	1.35
1200.0	3.39	3.37	0.02	18.71	0.02	1200.0	1.53	1.32	1.32
1300.0	3.38	3.36	0.02	18.70	0.03	1300.0	1.48	1.29	1.29
1400.0	3.37	3.34	0.02	18.68	0.02	1400.0	1.43	1.26	1.26
1500.0	3.36	3.33	0.03	18.65	0.02	1500.0	1.39	1.23	1.23
1600.0	3.36	3.33	0.03	18.63	0.02	1600.0	1.35	1.21	1.21
1700.0	3.37	3.33	0.04	18.66	0.02	1700.0	1.32	1.18	1.18
1800.0	3.38	3.33	0.05	18.70	0.01	1800.0	1.30	1.16	1.16
1900.0	3.39	3.34	0.06	18.78	0.01	1900.0	1.29	1.14	1.14
2000.0	3.41	3.34	0.06	18.96	0.01	2000.0	1.28	1.12	1.12
2100.0	3.43	3.35	0.08	19.16	0.03	2100.0	1.28	1.10	1.10
2200.0	3.45	3.37	0.09	19.52	0.05	2200.0	1.29	1.09	1.08
2300.0	3.49	3.39	0.10	20.03	0.08	2300.0	1.30	1.07	1.07
2400.0	3.52	3.42	0.10	20.75	0.10	2400.0	1.32	1.06	1.06
2500.0	3.56	3.44	0.11	21.76	0.16	2500.0	1.34	1.05	1.07
2600.0	3.59	3.48	0.11	23.20	0.22	2600.0	1.37	1.06	1.09
2700.0	3.63	3.51	0.12	25.24	0.30	2700.0	1.39	1.08	1.12
2800.0	3.67	3.55	0.12	28.08	0.38	2800.0	1.41	1.12	1.16
2900.0	3.71	3.59	0.12	31.67	0.49	2900.0	1.42	1.16	1.21
3000.0	3.75	3.63	0.12	32.34	0.61	3000.0	1.45	1.21	1.27
3100.0	3.79	3.67	0.12	28.81	0.70	3100.0	1.47	1.26	1.33
3200.0	3.83	3.72	0.11	25.41	0.76	3200.0	1.49	1.32	1.39
3300.0	3.88	3.77	0.11	22.92	0.83	3300.0	1.51	1.38	1.46
3400.0	3.92	3.82	0.10	21.03	0.85	3400.0	1.53	1.44	1.52
3500.0	3.97	3.88	0.10	19.61	0.82	3500.0	1.55	1.51	1.59
3600.0	4.04	3.93	0.11	18.46	0.71	3600.0	1.58	1.57	1.65
3700.0	4.10	4.00	0.11	17.55	0.54	3700.0	1.61	1.63	1.70
3750.0	4.14	4.04	0.11	17.19	0.48	3750.0	1.64	1.66	1.73
3800.0	4.18	4.07	0.10	16.78	0.33	3800.0	1.66	1.69	1.75
3900.0	4.26	4.17	0.09	16.10	0.15	3900.0	1.73	1.74	1.80
4000.0	4.36	4.28	0.08	15.47	0.03	4000.0	1.81	1.78	1.83

¹Total Loss = Insertion Loss + 3dB Splitter Loss



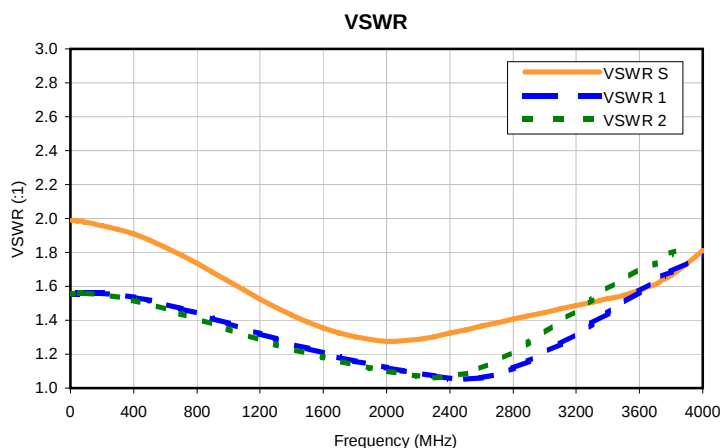
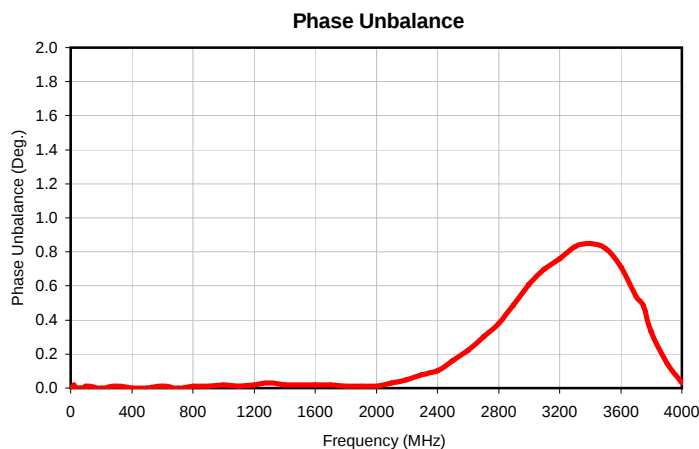
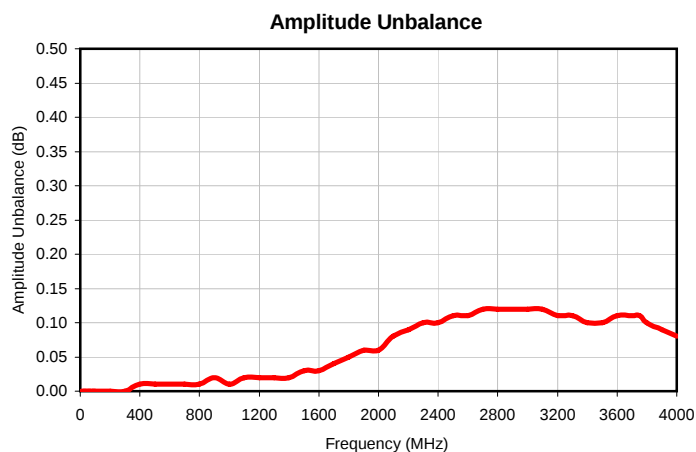
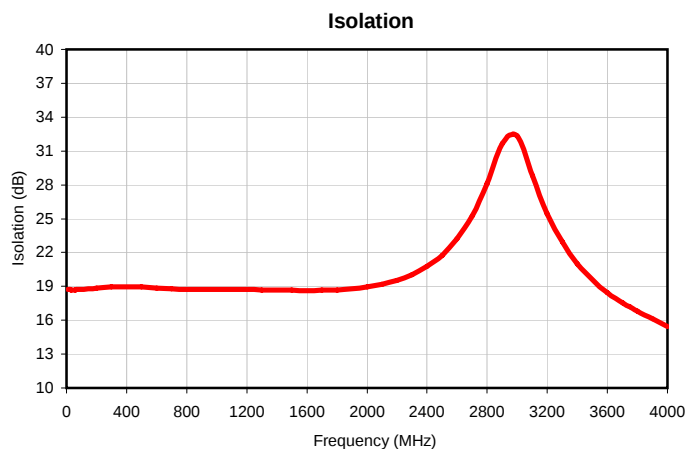
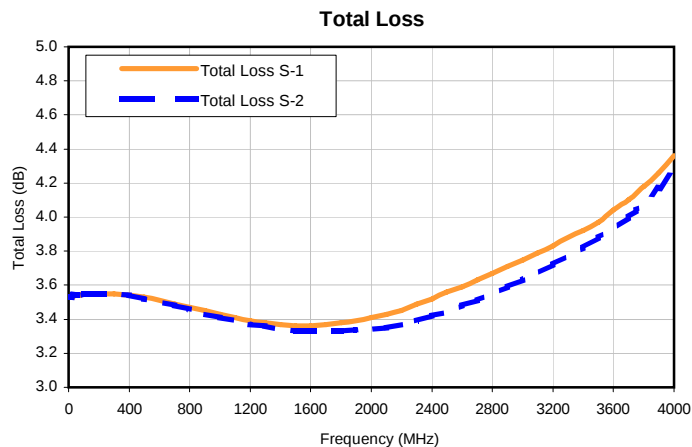
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 • Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site
The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com



IF/RF MICROWAVE COMPONENTS

REV. X2
ZFSC-ED2876
9/17/2010
Page 1 of 1

Typical Performance Curves



Outline Dimensions



CASE#	A	B	C	D	E	F	G	H	J	K	L	M	N
K18	1.25 (31.75)	1.25 (31.75)	.75 (19.05)	.63 (16.00)	.38 (9.65)	1.000 (25.40)	.125 (3.18)	1.000 (25.40)	-- --	-- --	.125 (3.18)	1.688 (42.88)	2.18 (55.37)

CASE#	P	Q	WT. GRAMS
K18	.75 (19.05)	.07 (1.78)	70.0

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .03$; 3 Pl. $\pm .015$

Notes:

- Case material: Aluminum alloy.
- Case finish:
For RoHS Case Styles: Clear chemical conversion coating, non-chrome or trivalent chrome based.
- Mounting bracket available on request. Add suffix B to part number.
- For port marking 1, 2, and 3 see specifications data sheet.
- For bracket version, option B, dimension "C" changes from .75 to .94 inches when connectors are type N.
- Refer to the individual model data sheet for the type of connectors available.



INTERNET <http://www.minicircuits.com>

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

Distribution Centers NORTH AMERICA 800-654-7949 • 417-335-5935 • Fax 417-335-5945 • EUROPE 44-1252-832600 • Fax 44-1252-837010

Mini-Circuits ISO 9001 & ISO 14001 Certified