

Coaxial

Power Splitter/Combiner

2 Way-0° 50Ω 10 to 3700 MHz
ZFSC-2-372-S+


CASE STYLE: K18

Connectors	Model
SMA	ZFSC-2-372-S+
BRACKET (OPTION "B")	

+RoHS Compliant

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

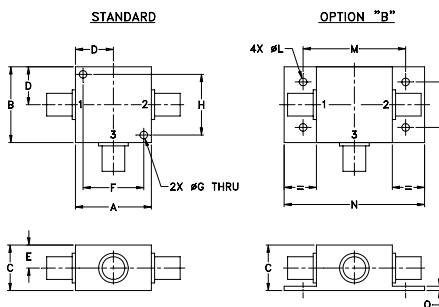
Maximum Ratings

Operating Temperature	-40°C to 85°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.	

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

Features

- very wideband, 10 to 3700 MHz
- low insertion loss, 0.6 dB typ.
- excellent amplitude unbalance, 0.2 dB typ.
- excellent phase unbalance, 1.0 deg. typ.
- rugged shielded case

Applications

- cellular
- GPS
- PCS/DCS
- ISM
- satellite distribution
- MMDS
- defense communications

Electrical Specifications

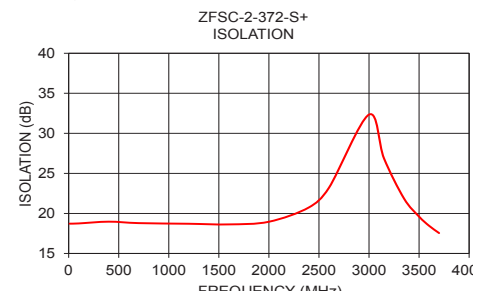
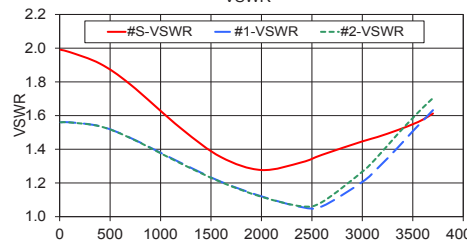
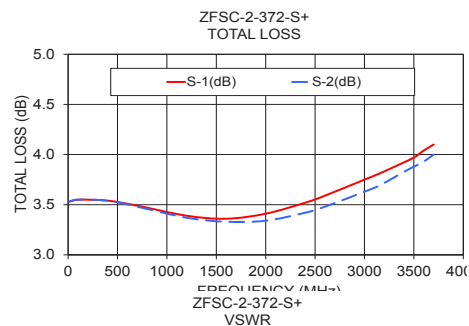
FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 3.0 dB			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L	M	U	L	M	U	L	M	U	L	M	U
f_L - f_U	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Max.	Max.
10-3700	18	13	18	14	20	14	0.5	0.8	0.6	1.1	0.8	1.6
2400-3300			25	17					0.6	1.3		

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]

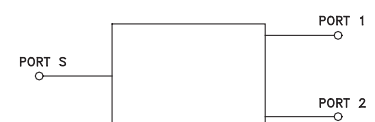
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
10.00	3.53	3.53	0.00	18.72	0.00	1.99	1.56	1.56
100.00	3.55	3.55	0.00	18.75	0.01	1.98	1.56	1.56
400.00	3.54	3.54	0.01	18.97	0.00	1.91	1.54	1.54
700.00	3.49	3.48	0.01	18.79	0.00	1.78	1.47	1.47
1200.00	3.39	3.37	0.02	18.71	0.02	1.53	1.32	1.32
1600.00	3.36	3.33	0.03	18.63	0.02	1.35	1.21	1.21
2000.00	3.41	3.34	0.06	18.96	0.01	1.28	1.12	1.12
2400.00	3.52	3.42	0.10	20.75	0.10	1.32	1.06	1.06
2600.00	3.59	3.48	0.11	23.20	0.22	1.37	1.06	1.09
3000.00	3.75	3.63	0.12	32.34	0.61	1.45	1.21	1.27
3150.00	3.81	3.69	0.12	26.87	0.72	1.47	1.29	1.36
3350.00	3.90	3.80	0.10	21.86	0.84	1.51	1.41	1.49
3500.00	3.97	3.88	0.10	19.61	0.82	1.55	1.51	1.59
3600.00	4.04	3.93	0.11	18.46	0.71	1.58	1.57	1.65
3700.00	4.10	4.00	0.11	17.55	0.54	1.61	1.63	1.70

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



electrical schematic



Notes

- A. 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.
 B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
 C. The parts covered by this specification document are subject to Mini-Circuit's standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp



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REV. C
 M175652
 ZFSC-2-372-
 ED-2876
 HY/WZ/CP/AM
 190801

2 Way-0° Power Splitter/Combiner

ZFSC-2-372+

Typical Performance Data

FREQ. (MHz)	TOTAL LOSS ¹		AMP. UNBAL. (dB)	ISOLATION (dB) 1-2	PHASE UNBAL. (Deg.)	FREQ. (MHz)	VSWR		
	(dB)						(: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

¹Total Loss = Insertion Loss + 3dB Splitter Loss



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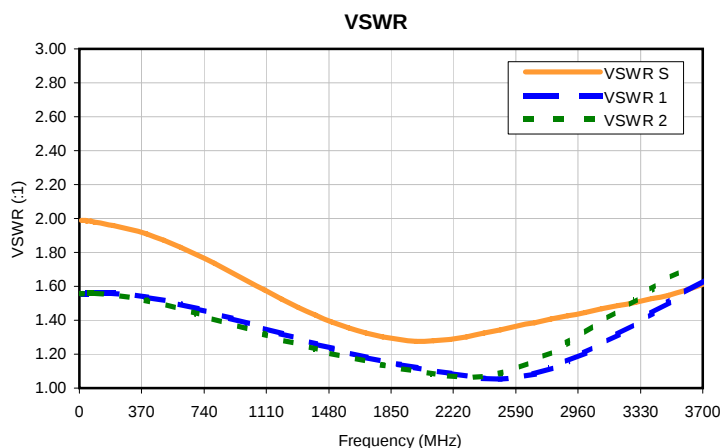
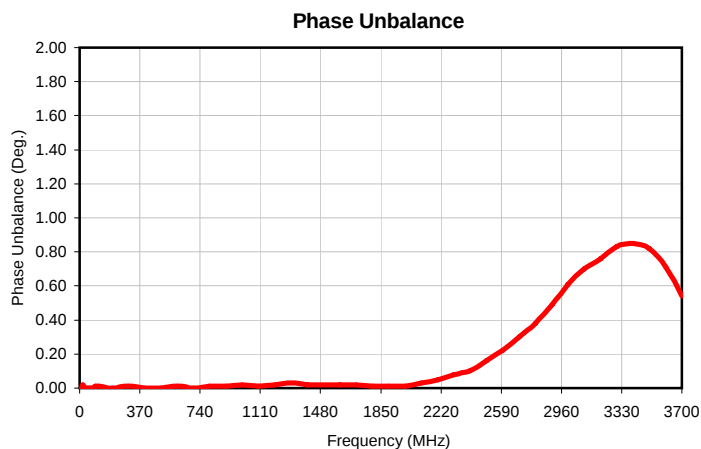
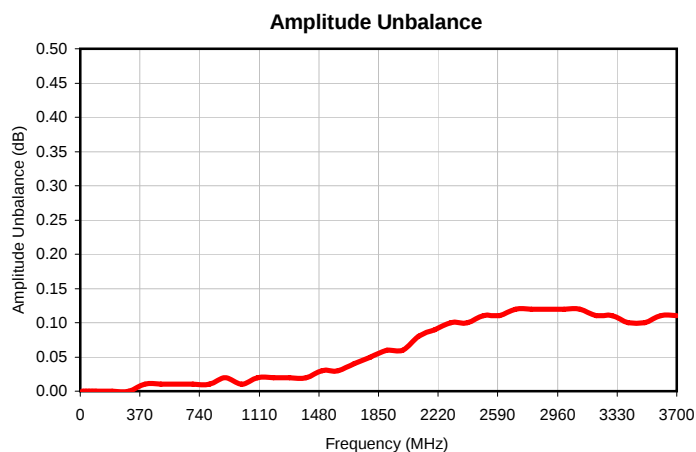
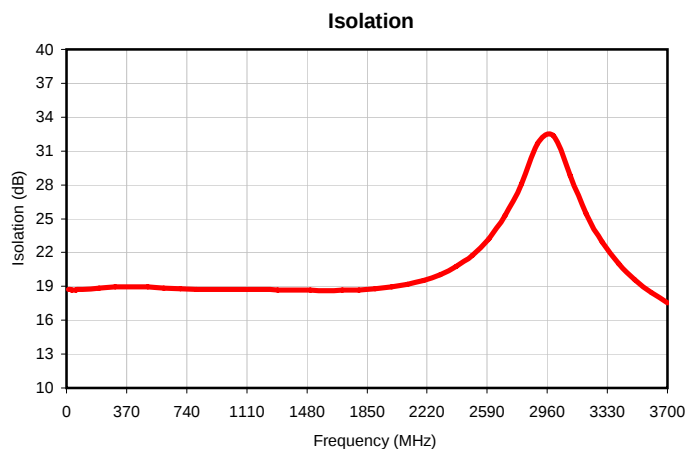
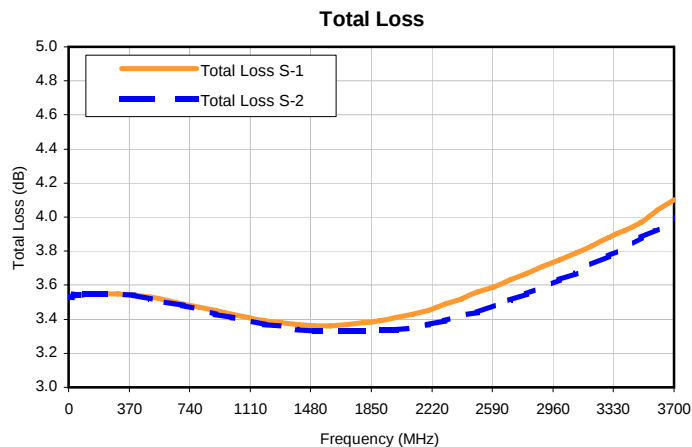
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IF/RF MICROWAVE COMPONENTS

2 Way-0° Power Splitter/Combiner

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Typical Performance Curves



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IF/RF MICROWAVE COMPONENTS

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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.



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All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-40° to 85°C	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Barometric Pressure	100,000 Feet	MIL-STD-202, Method 105, Condition D
Humidity	90% RH, 65°C Units may require bake-out after humidity to restore full performance.	MIL-STD-202, Method 103
Thermal Shock	-65° to 125°C, 5 cycles	MIL-STD-202, Method 107, Condition B
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	100g, 6ms sawtooth, 3 shocks each direction 3 axes (total 18)	MIL-STD-202, Method 213, Condition I