

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

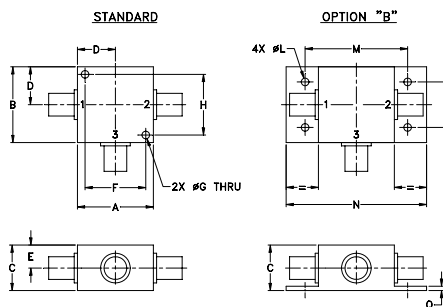
Maximum Ratings

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

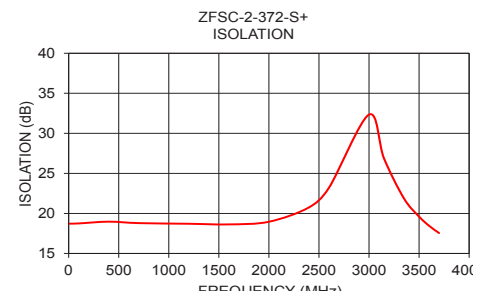
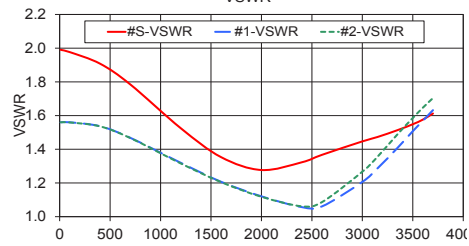
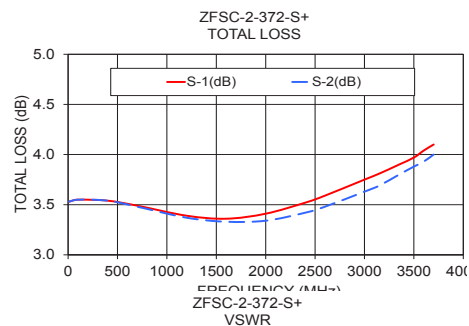
FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 3.0 dB			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L	M	U	L	M	U	L	M	U	L	M	U
f_L - f_U	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Max.	Max.
10-3700	18	13	18	14	20	14	0.5	0.8	0.6	1.1	0.8	1.6
2400-3300			25	17					0.6	1.3		

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]

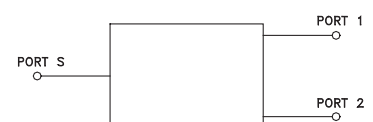
Typical Performance Data

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.
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 M175652
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 ED-2876
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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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IF/RF MICROWAVE COMPONENTS

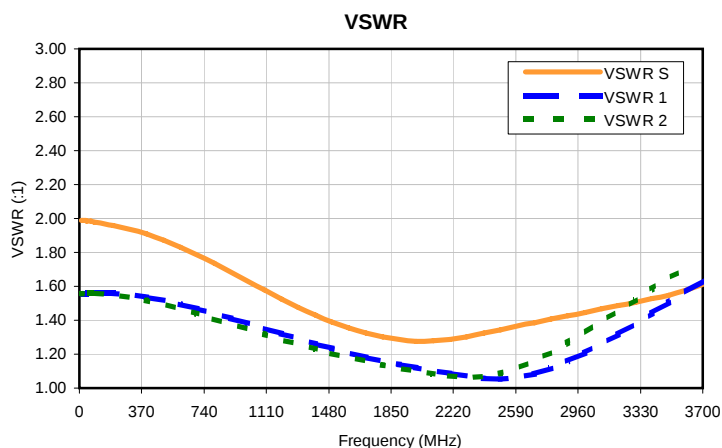
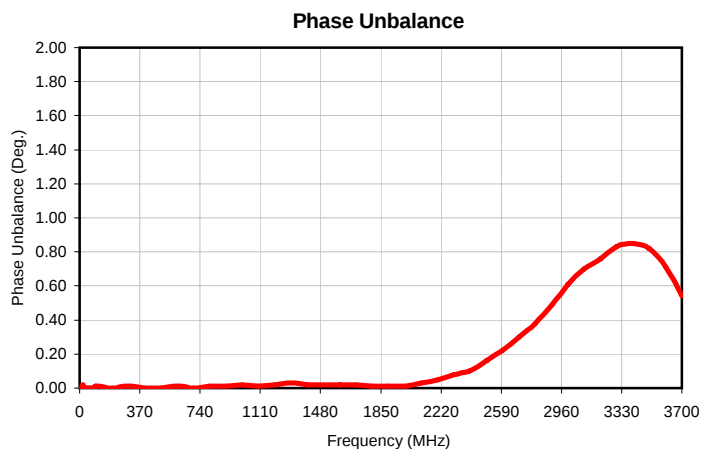
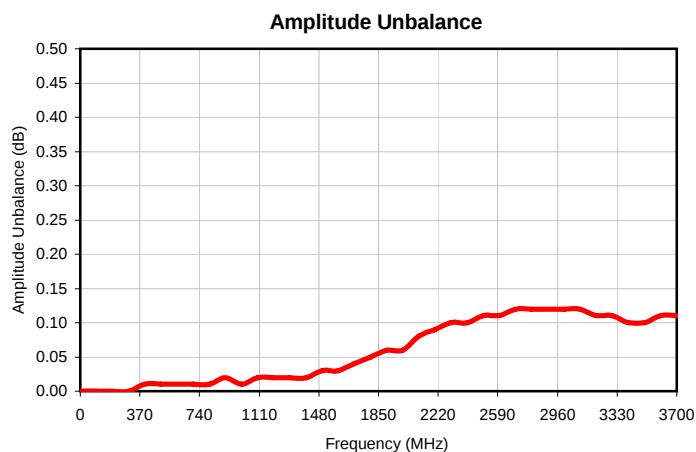
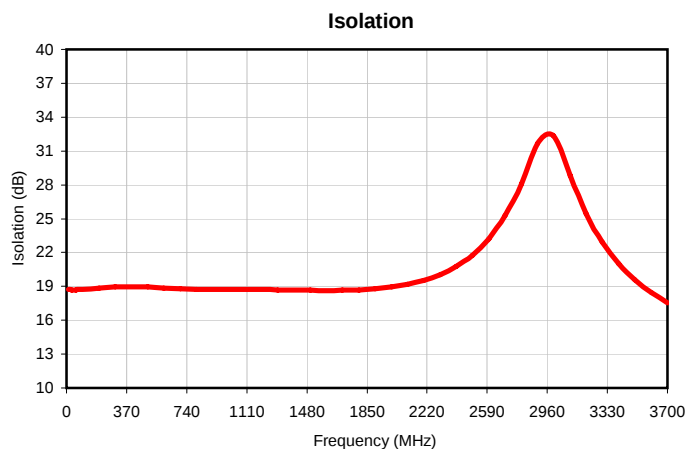
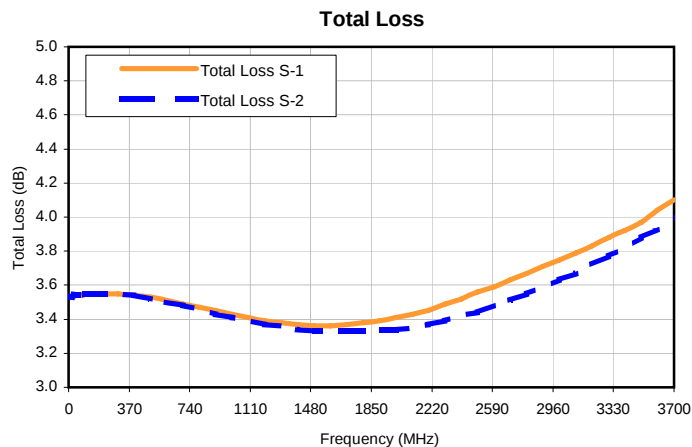


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2 Way-0° Power Splitter/Combiner

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Typical Performance Curves



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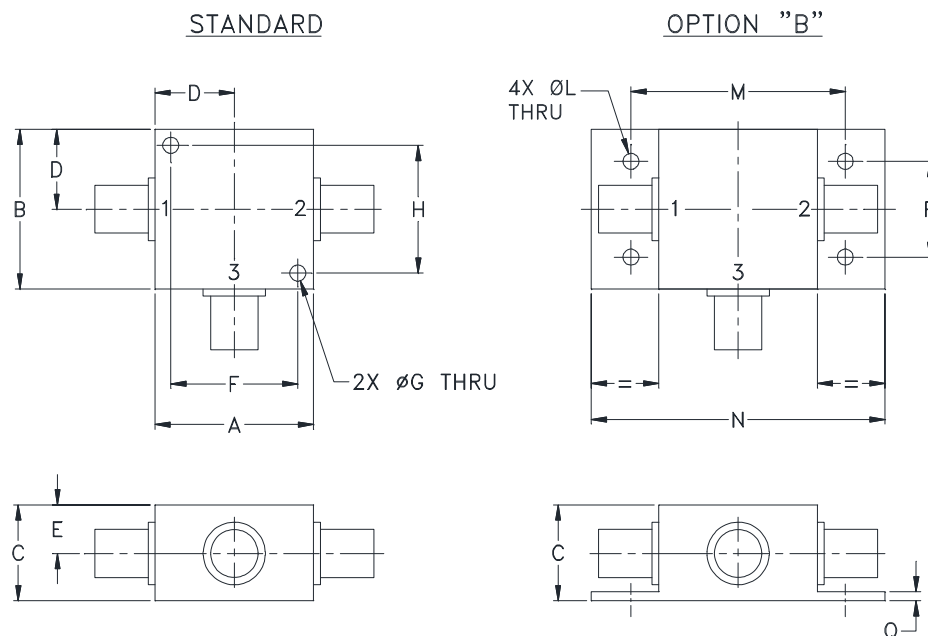
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IF/RF MICROWAVE COMPONENTS

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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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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