

# POWER SPLITTERS/COMBINERS

50 & 75Ω

2 Way-0° 2 kHz to 10 GHz



ZESC-2



ZFSC-2



ZMSC-2



ZSC-2

MODEL NO.	FREQ. RANGE MHz  f <sub>L</sub> -f <sub>U</sub>	ISOLATION dB						INSERTION LOSS, dB Above 3dB						PHASE UNBAL. Degrees			AMPLITUDE UNBAL. dB			VSWR (:1)		CASE STYLE  Note B	CONNECTION	PRICE \$ Qty. (1-9)	
		L Typ.	M° Min.	U Typ.	Min.	Typ.	Min.	L Typ.	M° Min.	U Typ.	Max.	L Max.	M° Max.	U Max.	L Max.	M° Max.	U Max.	S Typ.	OUT Typ.	Max.					
ZESC-2-11	10-2000	19	10	18	13	20	11	0.5	0.9	0.5	1.0	0.6	1.2	1	3	6	0.20	0.30	0.50			V37	ar	71.95	
■ ZFSC-2-1	5-500	30	25	28	20	25	20	0.2	0.5	0.3	0.6	0.6	0.8	2	4	4	0.15	0.15	0.30			K18	ar	44.95	
■ ZFSC-2-1-75	0.25-300	20	15	30	25	25	20	0.4	0.75	0.4	0.75	0.4	1.0	2	3	5	0.15	0.20	0.30			K18	ar	45.95	
■ ZFSC-2-1W-75	5-600	44	26	45	30	31	20	0.22	0.6	0.27	0.7	0.46	0.9	1	2	3	0.20	0.30	0.40			K18	ar	50.95	
ZFSC-2-1W	1-750	30	20	28	20	25	20	0.2	0.5	0.4	0.8	0.8	1.0	2	4	4	0.15	0.15	0.30			K18	ar	48.95	
ZFSC-2-2	10-1000	30	20	25	20	23	18	0.2	0.5	0.5	1.0	0.9	1.2	2	4	4	0.15	0.15	0.30			K18	ar	51.95	
		L'		U'				L'		U'				L'		U'									
ZFSC-2-9G	3500-9000	18	12	20	12			0.5	1.5	0.6	1.2			7	10		0.30	0.50				JJJ142	as	59.95	
ZFSC-2-10G	2000-10000	15	9	20	12			0.5	1.5	0.6	1.6			7	12		0.60	0.50				JJJ142	as	69.95	
ZFSC-2-4	0.2-1000	20	15	25	20	23	18	0.2	0.8	0.5	1.0	0.9	1.2	2	4	4	0.15	0.15	0.30			K18	ar	55.95	
ZFSC-2-5	10-1500	25	15	30	20	25	18	0.25	0.6	0.5	1.0	0.8	1.5	2	3	4	0.15	0.20	0.50			K18	ar	59.95	
❖ ZFSC-2-6*	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			K18	ar	49.95	
❖ ZFSC-2-6-75	0.004-60	30	20	35	20	25	20	0.5	0.8	0.4	0.8	0.7	1.0	1	2	3	0.15	0.20	0.30			K18	ar	51.95	
ZFSC-2-11	10-2000	14	10	16	14	20	15	1.2	1.5	1.2	1.5	1.0	2.2	1	2	4	0.20	0.30	0.50			K18	ar	64.95	
▲ ZFSC-2-2500	0.2-2500	16	11	17	14	17	14	0.5	0.8	0.6	1.4	0.8	1.5	1	4	8	0.20	0.30	0.40			K18	ar	74.95	
ZMSC-2-1	0.1-400	20	15	25	20	25	20	0.2	0.5	0.4	0.75	0.6	1.0	2	3	4	0.15	0.20	0.30			M21	at	49.95	
ZMSC-2-1W	1-650	25	20	35	20	25	20	0.3	0.5	0.5	0.8	0.7	1.0	2	3	4	0.15	0.20	0.30			M21	at	54.95	
❖ ZMSC-2-2*	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	0.25	0.30			M21	at	59.95	
ZSC-2-1	0.1-400	20	15	25	20	25	20	0.2	0.5	0.4	0.75	0.6	1.0	2	3	4	0.15	0.20	0.30			M22	at	47.95	
ZSC-2-1W	1-650	25	20	35	25	25	20	0.3	0.5	0.5	0.8	0.7	1.0	2	3	4	0.15	0.20	0.30			M22	at	49.95	
❖ ZSC-2-2*	0.002-60	25	20	30	20	27	20	0.3	0.6	0.3	0.6	0.6	1.0	2	3	4	0.15	0.25	0.30			M22	at	52.95	
❖ ZSC-2-2-75**	0.002-60	25	20	30	20	27	20	0.3	0.6	0.3	0.6	0.6	1.0	2	3	4	0.15	0.25	0.30			M22	at	53.95	
ZSC-2-4	10-1000	25	20	35	20	25	20	0.2	0.5	0.5	0.8	0.7	1.3	2	4	6	0.15	0.20	0.30			M22	at	52.95	
■ ZSC-2375	55-85			35	25					0.3	0.5				1			0.10					M22	at	52.95
■ ZSC-2-1-75	0.25-300	20	15	30	20	20	15	0.4	0.75	0.4	0.75	0.4	1.0	2	3	5	0.15	0.20	0.30			M22	at	49.95	

## NOTES:

- \* Isolation specified to 0.004 MHz
- \*\* Insertion loss, Isolation specified to -20°C from 0.002 to 0.004 MHz
- ⊕ When only specification for M range given, specification applies to entire frequency range.
- ❖ At low range frequency band ( $f_L$  to  $10 f_L$ ), linearly derate maximum input power by 13 dB.
- Denotes 75 Ohm model, for coax connector models 75 Ohm BNC connectors are standard.
- ▲ Available only with SMA connectors
- A. General Quality Control Procedures, Environmental Specifications, Hi-Rel and MIL description are given in "Mini-Circuits Guarantees Quality" article.
- B. For details on Connector types, case mounted options, case finishes see "Case styles & Outline Drawings".
- C. Prices and specifications subject to change without notice.
- 1. Absolute maximum power, voltage and current ratings:
  - 1a. Matched power rating:
    - Models ZAPD, ZN2PD, ZC2PD, ZN2PD2 ..... 10 Watt
    - ZAPD-900-5W, ZN2PD-20 ..... 5W(as a splitter)
    - ZAPD-30 and other models ..... 1 Watt
  - 1b. Internal load dissipation:
    - ZAPD-900-5W ..... 1W max.
    - ZN2PD-20 ..... 0.725W max.
    - ZN2PD-9G, ZAPD-2-22-75, ZN2PD2 ..... 0.25W max.
    - All other models ..... 0.125 Watt

## coaxial connections

see case style outline drawing for pin locations

PORT	ar	as	at
SUM PORT	3	5	2
PORT 1	1	1	1
PORT 2	2	2	3
GND EXT.	—	—	—
CASE GND	—	—	—
NOT USED	—	—	—



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# Coaxial



MODEL NO.	FREQ. RANGE MHz  f <sub>L</sub> -f <sub>U</sub>	ISOLATION dB			INSERTION LOSS, dB Above 3dB			PHASE UNBAL. Degrees			AMPLITUDE UNBAL. dB			VSWR (:1)		CASE STYLE  Note B	CONNECTION	PRICE \$  Qty. (1-9)	
		L	M <sup>o</sup>	U	L	M <sup>o</sup>	U	L	M <sup>o</sup>	U	L	M <sup>o</sup>	U	S	OUT				
		Typ.	Min.	Typ. Min.	Typ. Min.	Typ. Max.	Typ. Max.	Typ. Max.	Max.	Max.	Max.	Max.	Max.	Max.	Typ. Max.				Typ. Max.
ZC2PD-900	800-900			30 20			0.1 0.4			2			0.20	1.10 1.30	1.10 1.30	F183	as	64.95	
ZN2PD-20	750-2000	18 15		25 20 18 15			0.2 0.5			4			0.30	1.16 1.5	1.10 1.35	VVV180	as	67.95	
ZN2PD-920	800-920			30 20			0.15 0.4			2			0.20	1.10 1.20	1.04 1.20	VVV180	as	59.95	
ZN2PD-920W	700-1050			22 15			0.15 0.5			3			0.30	1.20 1.50	1.04 1.20	VVV180	as	54.95	
ZN2PD-1900	1600-1900			30 20			0.18 0.4			2			0.20	1.20 1.35	1.04 1.20	VVV180	as	69.95	
ZN2PD-1900W	1500-2000			24 15			0.2 0.5			3			0.30	1.20 1.50	1.04 1.20	VVV180	as	64.95	
ZN2PD-9G	1700-9000			22 15			0.5 1.4			4			0.60			VVV180	as	69.95	
ZN2PD2-50	500-5000			25 15			0.8 1.4			4			0.5	1.20 —	1.10 —	VVV845	as	74.95	
	600-1600			24 17			0.7 1.1			2			0.3	1.20 —	1.10 —				
	1600-2700			26 18			0.8 1.2			3			0.3	1.20 —	1.10 —				
	2700-3600			28 19			0.9 1.3			3			0.4	1.20 —	1.10 —				
	3700-4800			22 18			0.9 1.4			4			0.5	1.20 —	1.10 —				
IZY2PD-64	5.8-6.4						0.2 0.5			5			0.30	1.05 1.30	1.20 1.35	JJJ245	as	89.95	
	7.0-8.6			30 18			0.1 0.5			6			0.25	1.10 1.45	1.10 1.40	JJJ245	as	94.95	
ZAPD-1	0.5-1.0			25 19			0.25 0.6			2			0.20			F14	as	54.95	
ZAPD-2	1.0-2.0			25 19			0.25 0.6			2			0.20			F14	as	54.95	
ZAPD-2-22-75	0.91-2.15			30 20			0.2 0.7			2			0.40	1.15 1.60	1.10 1.30	F14	as	58.95	
ZAPD-20	0.7-2.0			30 20			0.30 0.7			3			0.40	1.15 1.35	1.10 1.30	F53	as	59.95	
ZAPD-21	0.5-2.0			25 18			0.25 1.0			3			0.20			F53	as	59.95	
ZAPD-30	0.02-3.0	14 12	16 12	20 14	1.1 1.5	1.1 1.8	1.4 2.3	3 5 9	0.30 0.40 0.80				1.50 1.95 1.55 2.10	see Yoni for Performance Data and curves		F14	as	79.95	
ZAPD-4	2.0-4.2			25 19			0.4 0.8			6			0.40	Performance Data and curves		F14	as	59.95	
ZAPD-50	4.4-5.0			26 20			0.3 0.8			5			0.50			F14	as	54.95	
ZAPD-50W	4.2-6.0			26 16			0.3 0.8			5			0.70			F14	as	64.95	
ZAPD-900-5W	0.1-0.9			23 18			0.3 1.0			3			0.30			1.15 1.50 1.22 1.50	F14	as	59.95
ZAPD-1750	0.95-1.75			30 22			0.2 0.4			4			0.50			1.15 1.50 1.22 1.50	F14	as	54.95

L = low range [ $f_L$  to  $10 f_L$ ]

L<sup>1</sup> =  $f_L$  to 6 GHz

L<sup>0</sup> = 750 to 875 MHz

M = mid range [ $10 f_L$  to  $f_U/2$ ]

U<sup>1</sup> = 6 GHz to  $f_U$

U<sup>0</sup> = 1850 to 2000 MHz

U = upper range [ $f_U/2$  to  $f_U$ ]

## NSN GUIDE

MCL NO.	NSN	MCL NO.	NSN	MCL NO.	NSN
ZAPD-1(TNC)	5985-01-250-4883	ZFSC-2-2(SMA)	6625-01-333-1127	ZSC-2-1(TNC)	6625-01-310-2129
ZAPD-2 (BNC)	5895-01-476-0831	ZFSC-2-2B	5895-01-330-4416	ZSC-2-1	5895-01-214-6032
ZAPD-2(SMA)	5895-01-229-7431	ZFSC-2-4	6625-01-291-3346	ZSC-2-1B	6625-01-018-1066
ZAPD-4	6625-01-173-1887	ZFSC-2-4(TNC)	5985-01-250-4882	ZSC-2-1B(TNC)	6625-01-109-3706
ZAPD-4(SMA)	5985-01-383-0636	ZFSC-2-5	6625-01-253-2444	ZSC-2-1(BNC)	5895-01-036-6254
ZESC-2-11	5985-01-381-9081	ZFSC-2-6	6625-01-419-4241	ZSC-2-1B(BNC)	6625-00-270-3055
ZFSC-2-1	6625-01-139-3499	ZFSC-2-6(BNC)	5895-01-408-6857	ZSC-2-1W	5895-01-283-0850
ZFSC-2-1(SMA)	6625-01-213-6490	ZFSC-2-6B	5985-01-315-2869	ZSC-2-1WB	6625-01-264-8985
ZFSC-2-1(BNC)	5985-01-176-4551	ZFSC-2-10G	5895-01-467-5372	ZSC-2-1-75B	5895-01-136-8182
ZFSC-2-1-75	5895-01-325-4795	ZFSC-2-11(SMA)	6625-01-415-2183	ZSC-2-2B	5820-01-136-7245
ZFSC-2-1W(SMA)	6625-01-200-5094	ZMSC-2-1	5985-01-333-1128	ZSC-2-2-75B	5915-01-012-8162
ZFSC-2-1W	5895-01-348-3534	ZMSC-2-1B	5895-01-253-2445	ZSC-2375	5895-01-229-0157
ZFSC-2-2B(SMA)	6625-01-362-1801	ZMSC-2-1BR	5985-01-338-9329	ZSC-2-4B	5895-01-467-5362
		ZMSC-2-1W	5895-01-127-0232		



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