

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 _L -f _U	ISOLATION dB					INSERTION LOSS, dB Above 3dB						PHASE UNBAL. Degrees			AMPLITUDE UNBAL. dB			VSWR (:1)		CASE STYLE	CONNECTION	PRICE \$		
		L	M°	U			L	M°	U			L	M°	U	L	M°	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.	Note B	Qty. (1-9)					
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 ¹		U ¹				L ¹		U ¹				L ¹	U ¹	L ¹	U ¹								
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	10-2500	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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	MODEL NO.	FREQ. RANGE MHz f _L -f _U	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°	U	L	M°	U	L	M°	U	L	M°	U	S	OUT					
			Typ. Min.	Typ. Min.	Typ. Min.	Typ. Max.	Typ. Max.	Typ. Max.	Max. Max.	Max. Max.	Max. Max.	Max. Max.	Max. Max.	Max. Max.	Typ. Max.	Typ. Max.					
NEW	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	L° 18	15	25	20	18	15		0.2	0.5		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	—				
		GHz																			
		IZY2PD-64	5.8-6.4		35	24		0.2	0.5		5		0.30		1.05	1.30	1.20	1.35	JJJ245	as	89.95
		IZY2PD-86	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	F14	as	79.95	
	ZAPD-4	2.0-4.2		25	19		0.4	0.8		6		0.40		see Yoni for 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 $10 f_L$]

L¹ = f_L to 6 GHz

L^o = 750 to 875 MHz

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

U¹ = 6 GHz to f_U

U^o = 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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