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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 L Typ.	ISOLATION dB L Min.	ISOLATION dB Mº Typ.	ISOLATION dB Mº Min.	ISOLATION dB U Typ.	ISOLATION dB U Min.	INSERTION LOSS, dB Above 3dB L Typ.	INSERTION LOSS, dB Above 3dB L Max.	INSERTION LOSS, dB Above 3dB Mº Typ.	INSERTION LOSS, dB Above 3dB Mº Max.	INSERTION LOSS, dB Above 3dB U Typ.	INSERTION LOSS, dB Above 3dB U Max.	PHASE UNBAL. Degrees L Max.	PHASE UNBAL. Degrees Mº Max.	PHASE UNBAL. Degrees U Max.	AMPLITUDE UNBAL. dB L Max.	AMPLITUDE UNBAL. dB Mº Max.	AMPLITUDE UNBAL. dB U Max.	VSWR (:1) S Typ.	VSWR (:1) S Max.	VSWR (:1) OUT Typ.	VSWR (:1) OUT Max.	CASE STYLE Note B	CONNECTION	PRICE $ 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	
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	
■ 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	
■ 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	
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	
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	
		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	
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	
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	
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	
✣ 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	
✣■ 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	
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	
▲ 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	
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	
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	
✣ 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	
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	
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	
✣ 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	
✣■ 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	
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	
■ ZSC-2375	55-85			35	25					0.3	0.5				1			0.10						M22	at	
■ 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	

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

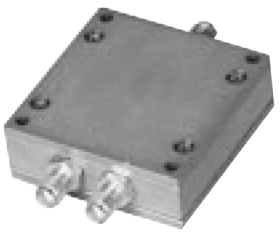
PORT	ar	as	at
SUM PORT	3	S	2
PORT 1	1	1	1
PORT 2	2	2	3
GND EXT.	—	—	—
CASE GND	—	—	—
NOT USED	—	—	—

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ZC2PD



ZN2PD



ZN2PD2



IZY2PD



ZAPD

	MODEL NO.	FREQ. RANGE MHz f_L-f_U	ISOLATION dB L Typ.	L Min.	M° Typ.	M° Min.	U Typ.	U Min.	INSERTION LOSS, dB Above 3dB L Typ.	L Max.	M° Typ.	M° Max.	U Typ.	U Max.	PHASE UNBAL. Degrees L Max.	M° Max.	U Max.	AMPLITUDE UNBAL. dB L Max.	M° Max.	U Max.	VSWR (:1) S Typ.	S Max.	OUT Typ.	OUT Max.	CASE STYLE Note B	CONNECTION	PRICE $ Qty. (1-9)
	ZC2PD-900	800-900			30	20					0.1	0.4			2			0.20			1.10	1.30	1.10	1.30	F183	as	
			L⁰				U⁰																				
	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	
	ZN2PD-920	800-920			30	20					0.15	0.4			2			0.20			1.10	1.20	1.04	1.20	VVV180	as	
	ZN2PD-920W	700-1050			22	15					0.15	0.5			3			0.30			1.20	1.50	1.04	1.20	VVV180	as	
	ZN2PD-1900	1600-1900			30	20					0.18	0.4			2			0.20			1.20	1.35	1.04	1.20	VVV180	as	
	ZN2PD-1900W	1500-2000			24	15					0.2	0.5			3			0.30			1.20	1.50	1.04	1.20	VVV180	as	
	ZN2PD-9G	1700-9000			22	15					0.5	1.4			4			0.60							VVV180	as	
NEW	ZN2PD2-50	**500-5000**			**25**	**15**					**0.8**	**1.4**			**4**			**0.5**			**1.20**	—	**1.10**	—	VVV845	as	
		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	
	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	
	ZAPD-1	0.5-1.0			25	19					0.25	0.6			2			0.20							F14	as	
	ZAPD-2	1.0-2.0			25	19					0.25	0.6			2			0.20							F14	as	
■	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	
	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	
	ZAPD-21	0.5-2.0			25	18					0.25	1.0			3			0.20							F53	as	
▲	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	F14	as	
	ZAPD-4	2.0-4.2			25	19					0.4	0.8			6			0.40							F14	as	
	ZAPD-50	4.4-5.0			26	20					0.3	0.8			5			0.50							F14	as	
	ZAPD-50W	4.2-6.0			26	16					0.3	0.8			5			0.70							F14	as	
	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	
	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	

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]

L^1 = f_L to 6 GHz
U^1 = 6 GHz to f_U

L^0 = 750 to 875 MHz
U^0 = 1850 to 2000 MHz

NSN GUIDE

MCL NO.	NSN
ZAPD-1(TNC)	5985-01-250-4883
ZAPD-2 (BNC)	5895-01-476-0831
ZAPD-2(SMA)	5895-01-229-7431
ZAPD-4	6625-01-173-1887
ZAPD-4(SMA)	5985-01-383-0636
ZESC-2-11	5985-01-381-9081
ZFSC-2-1	6625-01-139-3499
ZFSC-2-1(SMA)	6625-01-213-6490
ZFSC-2-1(BNC)	5985-01-176-4551
ZFSC-2-1-75	5895-01-325-4795
ZFSC-2-1W(SMA)	6625-01-200-5094
ZFSC-2-1W	5895-01-348-3534
ZFSC-2-2B(SMA)	6625-01-362-1801

MCL NO.	NSN
ZFSC-2-2(SMA)	6625-01-333-1127
ZFSC-2-2B	5895-01-330-4416
ZFSC-2-4	6625-01-291-3346
ZFSC-2-4(TNC)	5985-01-250-4882
ZFSC-2-5	6625-01-253-2444
ZFSC-2-6	6625-01-419-4241
ZFSC-2-6(BNC)	5895-01-408-6857
ZFSC-2-6B	5985-01-315-2869
ZFSC-2-10G	5895-01-467-5372
ZFSC-2-11(SMA)	6625-01-415-2183
ZMSC-2-1	5985-01-333-1128
ZMSC-2-1B	5895-01-253-2445
ZMSC-2-1BR	5985-01-338-9329
ZMSC-2-1W	5895-01-127-0232

MCL NO.	NSN
ZSC-2-1(TNC)	6625-01-310-2129
ZSC-2-1	5895-01-214-6032
ZSC-2-1B	6625-01-018-1066
ZSC-2-1B(TNC)	6625-01-109-3706
ZSC-2-1(BNC)	5895-01-036-6254
ZSC-2-1B(BNC)	6625-00-270-3055
ZSC-2-1W	5895-01-283-0850
ZSC-2-1WB	6625-01-264-8985
ZSC-2-1-75B	5895-01-136-8182
ZSC-2-2B	5820-01-136-7245
ZSC-2-2-75B	5915-01-012-8162
ZSC-2375	5895-01-229-0157
ZSC-2-4B	5895-01-467-5362

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