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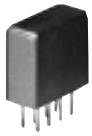
POWER SPLITTERS/COMBINERS 50 & 75Ω

2 WAY-0° 4 kHz to 2 GHz



MSC

MODEL NO.	FREQ. RANGE MHz f_L-f_U	ISOLATION dB L Typ.	ISOLATION dB L Min.	ISOLATION dB M° Typ.	ISOLATION dB M° 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 M° Typ.	INSERTION LOSS, dB Above 3dB M° Max.	INSERTION LOSS, dB Above 3dB U Typ.	INSERTION LOSS, dB Above 3dB U Max.	PHASE UNBALANCE Degrees L Max.	PHASE UNBALANCE Degrees M° Max.	PHASE UNBALANCE Degrees U Max.	AMPLITUDE UNBALANCE dB L Max.	AMPLITUDE UNBALANCE dB M° Max.	AMPLITUDE UNBALANCE dB U Max.	CASE STYLE Note B	CONNECTION	PRICE $ Qty. (1-9)
MSC-2-1	0.1-450	20	15	30	20	30	20	0.3	0.5	0.4	0.75	0.6	1.0	2.0	3.0	4.0	0.15	0.2	0.3	A03	ap	20.95
MSC-2-1W	2-650	22	18	30	20	22	18	0.3	0.5	0.5	0.8	0.8	1.2	1.0	2.0	4.0	0.3	0.2	0.3	A03	ap	22.95
MSC-2-5	5-1500	18	16	20	16	20	14	0.6	0.8	0.6	0.8	0.6	1.1	2.0	3.0	5.0	0.2	0.3	0.4	A03	ap	26.95
MSC-2-11	5-2000	18	16	20	16	18	11	0.6	0.8	0.6	0.8	1.2	1.8	2.0	3.0	5.0	0.2	0.3	0.5	A03	ap	31.95
PSC-2-1	0.1-400	20	15	25	20	25	20	0.2	0.6	0.4	0.75	0.6	1.0	2.0	3.0	4.0	0.15	0.2	0.3	A01	ap	11.95
PSC-2-1W	1-650	25	20	35	20	25	20	0.3	0.6	0.5	0.9	0.7	1.0	2.0	3.0	4.0	0.15	0.2	0.3	A01	ap	18.95
✣ PSC-2-2	0.004-60	27	20	30	20	27	20	0.3	0.6	0.3	0.6	0.6	1.0	2.0	3.0	4.0	0.15	0.25	0.3	A01	ap	25.95
PSC-2-4	10-1000	30	25	25	20	25	20	0.6	1.0	0.6	1.2	0.7	1.3	2.0	4.0	8.0	0.15	0.2	0.4	A01	ap	25.95
PSC-2-5	10-1400	28	18	22	17	24	17	0.3	0.6	0.6	1.0	0.9	1.6	2.0	3.0	4.0	0.15	0.2	0.4	A01	ap	31.95
PSC-2-11	5-2000	21	16	22	18	19	9	0.5	0.8	0.6	0.9	0.7	1.5	1.0	3.0	6.0	0.20	0.4	1.0	A01	ap	36.95
PSC-2-45	700-900			20	17					0.2	0.4				3.0			0.2		A01	ap	24.95
PSC-2-1000	400-1000			35	25					0.5	1.0				2.0			0.3		A06	ap	24.95

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]

NOTES:

✪ 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.

* VSWR typical 1.1:1 over total range of frequency, max 1.2:1 for low and upper range, max 1.15:1 for mid range.

A. General Quality Control Procedures, Environmental Specifications, Hi-Rel and MIL description are given in General Information (Section 0).

B. Connector types and case mounted options, case finishes are given in section 0, see "Case styles & Outline Drawings".

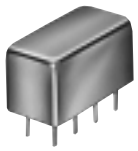
C. Prices and specifications subject to change without notice.

1. Absolute maximum power, voltage and current ratings:

1a. Matched power rating,
Model PSC-2-11 0.5 Watt
All other models 1 Watt

1b. Internal load dissipation, 0.125 Watt

001113



PSC

TSC

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 UNBALANCE Degrees L Max.	M° Max.	U Max.	AMPLITUDE UNBALANCE dB L Max.	M° Max.	U Max.	CASE STYLE Note B	CONNECTION	PRICE $ Qty. (1-9)
■ PSC-2-1-75	0.25-300	20	15	30	20	20	15	0.4	0.75	0.4	0.75	0.4	1.0	2.0	3.0	5.0	0.15	0.2	0.3	A01	ap	14.45
■ PSC-2-1-75A*	1-200	35	27	46	35	36	25	0.1	0.3	0.2	0.4	0.35	0.6	1.0	1.0	2.0	0.1	0.15	0.15	A06	ap	15.45
✣■ PSC-2-2-75	0.008-60	35	20	40	25	30	22	0.1	0.4	0.15	0.4	0.3	0.8	1.0	1.0	1.0	0.15	0.15	0.15	A01	ap	25.95
■ PSC-2-4-752	10-850	31	20	32	23	23	15	0.3	0.5	0.4	0.6	0.5	1.0	2.0	5.0	10.0	0.1	0.2	0.5	A01	ap	25.95
■ PSC-2375	55-85			35	25					0.3	0.5				1.0			0.1		A01	ap	25.95
TSC-2-1	1-400	30	25	30	25	30	20	0.25	0.5	0.4	0.75	0.8	1.0	2.0	3.0	4.0	0.15	0.2	0.6	B02	aj	17.95
		L2		U2				L2		U2				L2	U2		L2	U2				
TSC-2-1W	200-1000	26	20	23	14			0.3	0.8	0.7	1.5			5	10		0.7	0.5		B02	aj	21.95

L = low range [f_L to 10 f_L]
L_2 = (f_L to f_U/2)

M = mid range [10 f_L to f_U/2]
U_2 = (f_U/2 to f_U)

U = upper range [f_U/2 to f_U]

pin connections

see case style outline drawings for pin locations

PORT	aj	ap
SUM PORT	1	1
PORT 1	2	5
PORT 2	4	6
GND EXT.	3	2,3,4,7,8
CASE GND	3	2,3,4,7,8
NOT USED	—	—

NSN GUIDE

MCL NO.	NSN	MIL-P-23971/15*
MSC-2-1	6625-01-124-8595	02
MSC-2-1W	5985-01-437-3528	
PSC-2-1	6625-00-548-0739	01
PSC-2-1W	5985-01-190-7701	
PSC-2-2	6625-01-143-2571	
PSC-2-4	6625-01-230-0492	
TSC-2-1	5895-01-332-8100	

* units are not QPL listed

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.	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)
	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
			L1		U1				L1		U1				L1	U1		L1	U1							
	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		see Yoni for				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	Performance				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	Data and				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	curves				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 and Isolation specified to -20°C from 0.002 MHz to 0.004 MHz

✪ When only specification for M range given, specification applies to entire frequency range.

✣ At low range frequency band (fL to 10 fL), 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 section 0, see "Mini-Circuits Guarantees Quality" article.

B. Connector types and case mounted options, case finishes are given in section 0, 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 10 Watt
ZAPD-900-5W, ZN2PD-20, 5W (as a splitter), ZAPD-30 and other models 1 Watt

1b. Internal load dissipation 0.125 Watt; ZAPD-900-5W, 1W max.;
ZN2PD-20, 0.725W max.; ZN2PD-9G, ZAPD-2-22-75, 0.25W max.

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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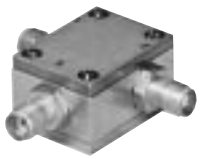
ZC2PD

ZN2PD



IZY2PD

ZAPD

	MODEL NO.	FREQ. RANGE MHz f_L-f_U	ISOLATION dB L Typ.	ISOLATION dB L Min.	ISOLATION dB M° Typ.	ISOLATION dB M° 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 M° Typ.	INSERTION LOSS, dB Above 3dB M° Max.	INSERTION LOSS, dB Above 3dB U Typ.	INSERTION LOSS, dB Above 3dB U Max.	PHASE UNBAL. Degrees L Max.	PHASE UNBAL. Degrees M° Max.	PHASE UNBAL. Degrees U Max.	AMPLITUDE UNBAL. dB L Max.	AMPLITUDE UNBAL. dB M° 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)
	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^0 18	15	25	20	U^0 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
		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
NEW▲	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	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^0 = 750 to 875 MHz

M = mid range [10 f_L to f_U/2]
U1 = 6 GHz to f_U
U^0 = 1850 to 2000 MHz

U = upper range [f_U/2 to f_U]

NSN GUIDE

MCL NO.	NSN
ZAPD-1(TNC)	5985-01-250-4883
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
ZFSC-2-2(SMA)	6625-01-333-1127

MCL NO.	NSN
ZFSC-2-2B	5895-01-330-4416
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

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