

DIPLEXER

Multilayer Chip Type

Small Size • Low Loss • High Reliability

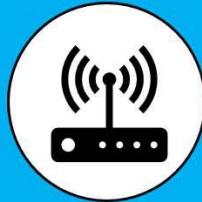
Simplify Circuit Design & Tuning



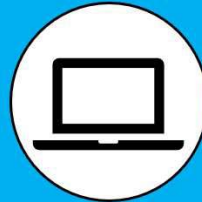
PHONE



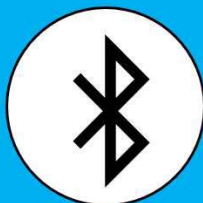
PDA



RF DEVICE



NOTEBOOK



BLUETOOTH



WLAN



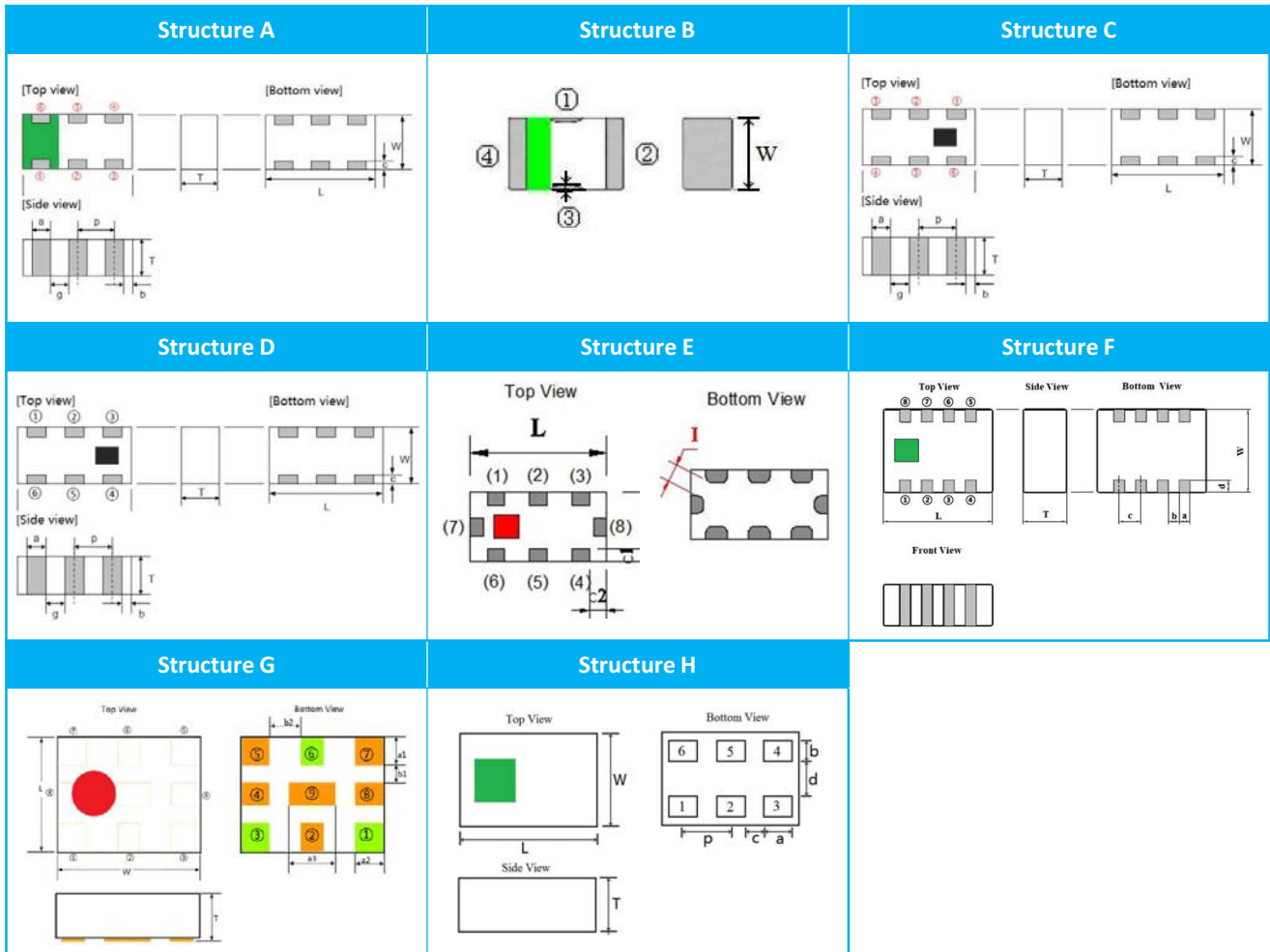
GPS



DVD

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Product Structure



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Pin Description & Dimension

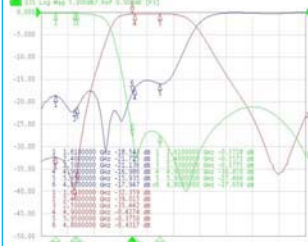
Shinhor P/N	Structure	Size (mm)			Pin No. & Description								
		L	W	T	1	2	3	4	5	6	7	8	9
MDPX18M0917P69-D10	A	1.6±0.1	0.8±0.1	0.6±0.1	GND	ANT	GND	LB	GND	HB			
MDPX18M1524P69-D03	A	1.6±0.1	0.8±0.1	0.6±0.1	GND	ANT	GND	LB	GND	HB			
MDPX18M1524P69-D03M	A	1.6±0.1	0.8±0.1	0.6±0.1	GND	ANT	GND	HB	GND	LB			
MDPX18M1524P69-D07	B	1.6±0.1	0.8±0.1	0.6±0.05	GND	HB	ANT	LB					
MDPX18M1826P69-D11	A	1.6±0.1	0.8±0.1	0.6±0.1	GND	ANT	GND	HB	GND	LB			
MDPX18M2455P69-D06	C	1.6±0.1	0.8±0.1	0.6±0.1	HB	GND	LB	GND	ANT	GND			
MDPX18M2455P69-D06M	C	1.6±0.1	0.8±0.1	0.6±0.1	LB	GND	HB	GND	ANT	GND			
MDPX18M2455P69-D06X	D	1.6±0.1	0.8±0.1	0.6±0.1	GND	ANT	GND	LB	GND	HB			
MDPX18M2455P69-D41	E	1.6±0.1	0.8±0.1	0.7 Max.	GND	ANT	GND	LB	GND	HB	NC	NC	
MDPX21M0829P69-D12	H	2.0±0.1	1.25±0.1	0.9±0.1	GND	ANT	GND	HB	GND	LB			
MDPX21M0829P69-D13	H	2.0±0.1	1.25±0.1	0.9±0.1	GND	ANT	GND	HB	GND	LB			
MDPX21M0917P69-D15	A	2.0±0.2	1.25±0.2	0.9±0.1	GND	ANT	GND	LB	GND	HB			
MDPX21M0917P69-D15M	A	2.0±0.2	1.25±0.2	0.9±0.1	GND	ANT	GND	HB	GND	LB			
MDPX21M0917P69-D25	A	2.0±0.2	1.25±0.2	0.9±0.1	GND	ANT	GND	HB	GND	LB			
MDPX21M1925P69-D27	A	2.0±0.2	1.25±0.2	0.9±0.1	GND	ANT	GND	HB	GND	LB			
MDPX21M2124P69-D18	A	2.0±0.2	1.25±0.2	0.9±0.1	GND	ANT	GND	LB	GND	HB			
MDPX21M2124P69-D37	C	2.0±0.15	1.25±0.1	0.9 Max.	GND	ANT	GND	HB	GND	LB			
MDPX21M2733P69-D28	A	2.0±0.2	1.25±0.2	0.6 Max.	GND	ANT	GND	HB	GND	LB			
MDPX22M0722P69-D29	F	2.5±0.15	2.0±0.15	0.65 Max.	GND	GND	ANT	GND	HB	GND	GND	LB	
MDPX22M0917P69-D40	F	2.5±0.15	2.0±0.15	1.0 Max.	GND	GND	ANT	GND	HB	GND	GND	LB	
MDPX22M1524P69-D01	G	2.5±0.2	2.0±0.2	0.8±0.1	BT/WLAN	GND	GPS	GND	GND	ANT	GND	GND	GND
MDPX22M2633P69-D30X	G	2.5±0.2	2.0±0.2	0.75 Max.	GND	ANT	GND	GND	HB	GND	LB	GND	GND
MDPX22M4251P69-D38X	G	2.5±0.2	2.0±0.2	0.7 Max.	GND	ANT	GND	GND	HB	GND	LB	GND	GND

* Remark: HB – High Band / LB – Low Band

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Electrical Characteristics

[Impedance: 50Ω]

Shinohm P/N	Freq. Range (MHz)	I. L. (dB/Max.)	VSWR (in BW)	Attenuation (dB/Min.)	Isolation (dB/Min.)	PWR Cap. (W/Max.)	Electrical Characteristics
MDPX18M0917P69 -D10	f1: 698~960	0.8 (@25°C) 1.0 (@-40~85°C)	≤2.0	25dB (1710~2700MHz)	20dB (698~960MHz) 20dB (1710 ~ 2700MHz)	2	
	f2: 1710~2700	0.7 (@25°C) 0.9 (@-40~85°C)		20dB (698~960MHz) 20dB (5150~5800MHz)			
MDPX18M1524P69 -D03	f1: 2400~2500 4900~6000	0.6	≤2.0	20dB (1570~1610MHz)		2	
	f2: 1570~1610	0.6		15dB (2400~2500MHz) 15dB (4900~6000MHz)			
MDPX18M1524P69 -D03M	f1: 2400~2500 4900~6000	0.65	≤2.0	20dB (1570~1610MHz)		2	
	f2: 1570~1610	0.6		15dB (2400~2500MHz) 15dB (4900~6000MHz)			
MDPX18M1524P69 -D07	f1: 824~960 1166~1299 1525~1616	0.6 0.5 0.6 (@-40~85°C)	≤2.0	12dB (824 ~ 960MHz) 12dB (1166 ~ 1299MHz) 19dB (1525 ~ 1616MHz)		2	
	f2: 2400~2501	0.7 (@-40~85°C)		13dB (2400~2501MHz)			
MDPX18M1826P69 -D11	f1: 1710~1880	0.6 (@25°C) 0.8 (@-40~85°C)	≤2.0	15dB (2500~2690MHz)	15dB (1710~1880MHz) 15dB (2500~2690MHz)	2	
	f2: 2500~2690	0.6 (@25°C) 0.8 (@-40~85°C)		15dB (1710~1880MHz)			
MDPX18M2455P69 -D06	f1: 2400~2500	0.5	≤2.0	10dB (3600~3750MHz) 20dB (4800~5000MHz) 10dB (7200~7500MHz) 10dB (9600~10000MHz)	25dB (4800~5000MHz)	2	
	f2: 4900~5950	0.6		30dB (860~960MHz) 25dB (1545~1605MHz) 25dB (1710~1990MHz) 30dB (2170MHz) 10dB (8100~8800MHz) 15dB (8820~9800MHz) 25dB (9800~11800MHz)			

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Electrical Characteristics

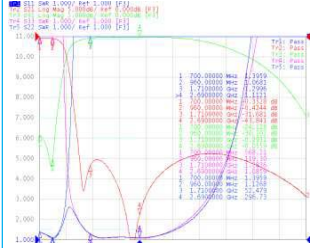
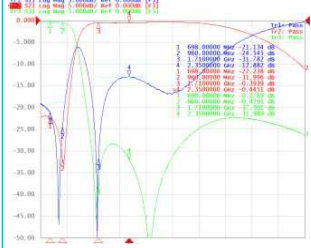
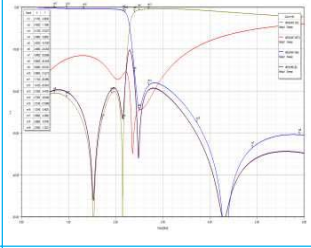
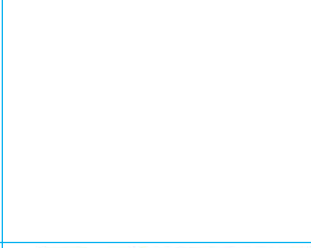
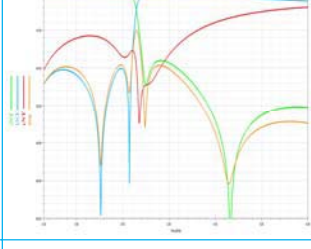

[Impedance: 50Ω]

Shinohm P/N	Freq. Range (MHz)	I. L. (dB/Max.)	VSWR (in BW)	Attenuation (dB/Min.)	Isolation (dB/Min.)	PWR Cap. (W/Max.)	Electrical Characteristics
MDPX18M2455P69 -D06M	f1: 2400~2500	0.5	≤2.0	10dB (3600~3750MHz) 20dB (4800~5000MHz) 10dB (7200~7500MHz) 10dB (9600~10000MHz)	25dB (4800~5000MHz)	2	
	f2: 4900~5950	0.6		30dB (860~960MHz) 25dB (1545~1605MHz) 25dB (1710~1990MHz) 30dB (2170MHz) 10dB (8100~8800MHz) 15dB (8820~9800MHz) 25dB (9800~11800MHz)			
MDPX18M2455P69 -D06X	f1: 2400~2500	0.5	≤2.0	10dB (3600~3750MHz) 20dB (4800~5000MHz) 10dB (7200~7500MHz) 10dB (9600~10000MHz)	25dB (4800~5000MHz)	2	
	f2: 4900~5950	0.6		30dB (860~960MHz) 25dB (1545~1605MHz) 25dB (1710~1990MHz) 30dB (2170MHz) 10dB (8100~8800MHz) 15dB (8820~9800MHz) 25dB (9800~11800MHz)			
MDPX18M2455P69 -D41	f1: 2400~2500	0.5	≤1.43	27dB (4800~5000MHz) 27dB (7200~7500MHz)	35dB (2400~2500MHz) 28dB (5150~5850MHz)	1	
	f2: 5150~5850	0.7		27dB (2400~2500MHz) 27dB (10300~11700MHz) 27dB (15450~17550MHz)			
MDPX21M0829P69 -D12	f1: 699~960	0.5	≤2.0	25dB (1427~1511MHz) 30dB (1559~1610MHz) 35dB (1805~2170MHz) 30dB (2400~2700MHz) 20dB (3400~3800MHz) 25dB (5150~5850MHz)	25dB (699~960MHz) 25dB (1427~2200MHz)	2	
	f2: 1427~2200	0.6		25dB (698~960MHz) 25dB (3400~3800MHz) 25dB (5150~5850MHz)			
MDPX21M0829P69 -D13	f1: 699~960	0.5	≤2.0	25dB (1427~1511MHz) 30dB (1559~1610MHz) 35dB (1805~2170MHz) 30dB (2400~2700MHz) 20dB (3400~3800MHz) 25dB (5150~5850MHz)	25dB (699~960MHz) 25dB (1427~2200MHz)	2	
	f2: 1427~5925	0.9		25dB (698~960MHz)			
MDPX21M0917P69 -D15	f1: 698~746 746~960	0.4 0.5 (@25°C)	≤2.0	30dB (1710~2170MHz) 30dB (2170~2400MHz) 35dB (2400~2700MHz)	25dB (699~960MHz) 25dB (1427~2200MHz)	3	
	f2: 1710~2700	0.5 (@25°C)		25dB (698~960MHz)			

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Electrical Characteristics

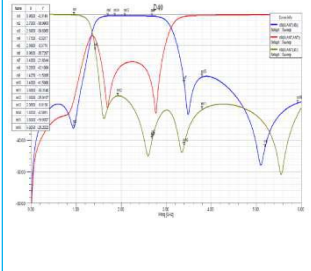
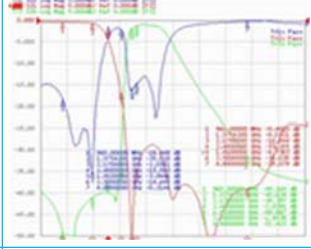
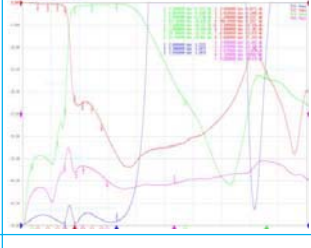
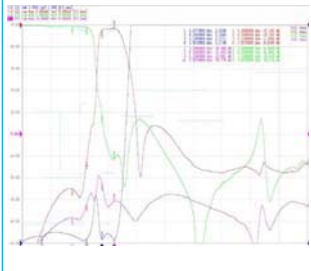
[Impedance: 50Ω]

Shinohm P/N	Freq. Range (MHz)	I. L. (dB/Max.)	VSWR (in BW)	Attenuation (dB/Min.)	Isolation (dB/Min.)	PWR Cap. (W/Max.)	Electrical Characteristics
MDPX21M0917P69 -D15M	f1: 698~746 746~960	0.4(@25°C) 0.5(@-40~85°C) 0.5(@25°C) 0.6(@-40~85°C)	≤2.0	30dB (1710~2170MHz) 30dB (2170~2400MHz) 35dB (2400~2700MHz)	25dB (699~960MHz) 25dB (1427~2200MHz)	3	
	f2: 1710~2700	0.5 (@25°C) 0.6 (@-40~85°C)		25dB (698~960MHz)			
MDPX21M0917P69 -D25	f1: 698~960	0.45	≤2.0	13dB (1710~2690MHz)	19dB (698~960MHz) 13dB (1710~2690MHz)	2	
	f2: 1710~2690	0.65		19dB (698~960MHz)			
MDPX21M1925P69 -D27	f1: 698~1920	0.6 (@25°C) 0.65 (@-40~85°C)	≤1.9	17dB (2496~2690MHz) 20dB (5150~5850MHz)	17dB (698~960MHz) 17dB (1710~1880MHz) 20dB (1880~1920MHz) 20dB (2496~2690MHz) 17dB (5150~5850MHz)	2	
	f2: 2496~2690	0.7 (@25°C) 0.8 (@-40~85°C)		20dB (698~960MHz) 17dB (1710~1880MHz) 17dB (1880~1920MHz)			
MDPX21M2124P69 -D18	f1: 800~960 1710~1990 1900~2170	0.6 (@25°C) 1.0 (@-40~85°C) 1.55	≤2.0	10dB (2400~2500MHz) 25dB (5150~5850MHz)	18dB (800~960MHz) 12dB (1710~2170 MHz) 10dB (2400~2500MHz) 25dB (5150~5850MHz)	2	
	f2: 2400~2500 5150~5850	2.0 0.6		18dB (800~960MHz) 12dB (1710~2170MHz)			
MDPX21M2124P69 -D37	f1: 698~2170	1.4 (@25°C) 1.65 (@-30~85°C)	≤2.0	15dB (2402~2482MHz) 15dB (2496~2690MHz) 30dB (4900~5900MHz)	18dB (698~1980MHz) 15dB (2110~2170MHz) 18dB (2496~2690MHz)	3.16	
	F2: 2496~2690	1.35 (@25°C) 1.55 (@-30~85°C)		20dB (698~960MHz) 15dB (2110~2170MHz)			
MDPX21M2733P69 -D28	f1: 617~2690	0.9	≤1.67	18dB (3300~3400MHz) 23dB (3400~3800MHz) 30dB (5150~5925MHz)	30dB (617~960MHz) 30dB (1427~1511MHz) 23dB (1710~2170MHz) 23dB (2170~2690MHz) 20dB (3300~3400MHz) 23dB (3400~3800MHz) 28dB (5150~5925MHz)	2	
	F2: 3300~5925	1.3		30dB (617~960MHz) 30dB (1427~1511MHz) 25dB (1710~2170MHz) 22dB (2170~2690MHz) 25dB (10300~11850MHz) 5dB (15450~17775MHz)			

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Electrical Characteristics

[Impedance: 50Ω]

Shinohm P/N	Freq. Range (MHz)	I. L. (dB/Max.)	VSWR (in BW)	Attenuation (dB/Min.)	Isolation (dB/Min.)	PWR Cap. (W/Max.)	Electrical Characteristics
MDPX22M0722P69 -D29	f1: 617~960	0.35 (@25°C) 0.4 (@-40~85°C)	≤1.3	9dB (1427~1463MHz) 10dB (1463~1511MHz) 25dB (1554~1605MHz) 25dB (1695~2108MHz) 25dB (2109~2200MHz) 25dB (2300~2400MHz) 25dB (2401~2586MHz) 25dB (2620~2745MHz) 30dB (3400~3800MHz) 30dB (5150~5925MHz) 10dB (5926~12750MHz)	24dB (617~960MHz) 25dB (1710~2690MHz)	2	
	f2: 1710~2690	0.8	≤1.4	25dB (617~960MHz) 20dB (3400~3800MHz) 15dB (3800~5130MHz) 28dB (5130~5925MHz) 12dB (5925~12750MHz)			
MDPX22M0917P69 -D40	f1: 617~960	0.4	≤0.13	9dB (1427~1463MHz) 10dB (1463~1511MHz) 25dB (1554~1605MHz) 25dB (1695~2108MHz) 25dB (2109~2200MHz) 25dB (2300~2400MHz) 25dB (2401~2586MHz) 25dB (2620~2745MHz) 30dB (3400~3800MHz) 30dB (5150~5925MHz) 10dB (5926~12750MHz)	25dB (698~915MHz) 24dB (915~960MHz) 25dB (1710~2690MHz) 25dB (2112~2148MHz)	2	
	f2: 1710~2690	0.8	≤0.14	25dB (617~960MHz) 20dB (3400~3800MHz) 15dB (3800~5130MHz) 28dB (5130~5925MHz) 12dB (5925~12750MHz)			
MDPX22M1524P69 -D01	f1: 2400~2500	2.0 (@25°C) 2.3 (@-40~85°C)	≤2.1	35dB (880~960MHz) 35dB (1710~1990MHz) 30dB (2170MHz) 30dB (4800~5000MHz)		2	
	f2: 1572~1578	0.6 (@25°C) 0.8 (@-40~85°C)		25dB (2400~2500MHz)			
MDPX22M2633P69 -D30X	f1: 617~2690	0.9 (@25°C) 1.1 (@-40~85°C)	≤2.0	18dB (3300~3400MHz) 20dB (3400~3800MHz) 20dB (3800~4200MHz) 20dB (4400~5000MHz) 20dB (5150~5950MHz)	20dB (617~960MHz) 18dB (1427~1661MHz) 18dB (1710~2200MHz) 18dB (2300~2690MHz)	2	
	f2: 3300~5950	1.1 (@25°C) 1.3 (@-40~85°C)		20dB (617~960MHz) 18dB (1427~1661MHz) 18dB (1710~2200MHz) 18dB (2300~2690MHz) 20dB (10300~11700MHz) 15dB (15450~17550MHz)	18dB (3300~3400MHz) 20dB (3400~3800MHz) 20dB (3800~4200MHz) 20dB (4400~5000MHz) 20dB (5150~5950MHz)		
MDPX22M4251P69 -D38X	f1: 1427~4200	0.9 (@25°C) 1.0 (@-40~85°C)	≤2.0	18dB (5150~5925MHz) 20dB (6600~8400MHz) 20dB (9900~12800MHz)	18dB (1427~1661MHz) 18dB (1710~2200MHz) 18dB (2300~2690MHz)	2	
	f2: 5150~5925	1.5 (@25°C) 1.7 (@-40~85°C)		20dB (700~2690MHz) 33dB (2550~2690MHz) 20dB (3300~3800MHz) 18dB (3800~4200MHz) 6dB (6900~7100MHz) 15dB (7200~7800MHz) 15dB (7800~9800MHz) 15dB (9800~11700MHz) 11dB (14700~17850MHz)	18dB (3300~3400MHz) 18dB (3400~3800MHz) 18.5dB (3800~4200MHz) 18dB (5150~5925MHz)		