

BALUN

Multilayer Chip Type

Small Size • Low Loss • High Reliability

Simplify Circuit Design & Tuning



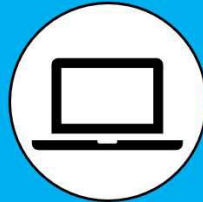
PHONE



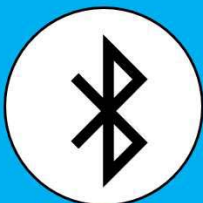
PDA



RF DEVICE



NOTEBOOK



BLUETOOTH



WLAN



GPS



DVD

BALUN

Product Structure

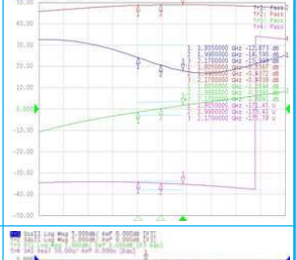
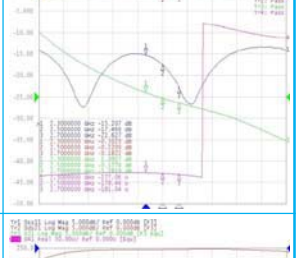
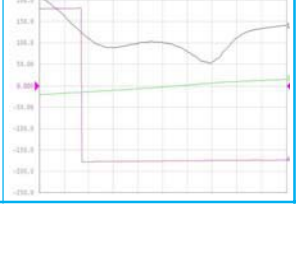
Structure A	Structure B	Structure C

Pin Description & Dimension

Shinoh P/N	Structure	Size (mm)			Pin No. & Description					
		L	W	T	1	2	3	4	5	6
MGMB0605H2-0790B26	A	0.6±0.05	0.5±0.05	0.4±0.05	GND	Unbalance	Balance	Balance		
MGMB0605H2-1900B25	A	0.6±0.05	0.5±0.05	0.4±0.05	GND	Unbalance	Balance	Balance		
MGMB0605H2-2500B19	A	0.6±0.05	0.5±0.05	0.4±0.05	GND	Unbalance	Balance	Balance		
MGMB15H2-1900B23	B	1.0±0.05	0.5±0.05	0.4±0.05	GND	Unbalance	Balance	Balance		
MGMB15H2-2450B18	B	1.0±0.05	0.5±0.05	0.4±0.05	GND	Unbalance	Balance	Balance		
MGMB18H1-1686B27	C	1.6±0.1	0.8±0.1	0.6±0.1	Unbalance	GND	Balance	Balance	GND	NC
MGMB18H1-1700B31	C	1.6±0.1	0.8±0.1	0.7 Max.	Unbalance	GND	Balance	Balance	GND	NC
MGMB18H1-2450B12	C	1.6±0.1	0.8±0.1	0.45±0.1	Unbalance	GND	Balance	Balance	GND	NC
MGMB18H2-1700B32	C	1.6±0.2	0.8±0.2	0.6±0.1	Unbalance	GND	Balance	Balance	GND	NC
MGMB18H2-4600B30	C	1.6±0.1	0.8±0.1	0.7 Max.	Unbalance	GND	Balance	Balance	GND	NC
MGMB18H4-2450B20	C	1.6±0.1	0.8±0.1	0.45 Max.	Unbalance	GND	GND	Balance	GND	Balance
MGMB21H2-2350B38	C	2.0±0.2	1.25±0.2	0.65±0.1	Unbalance	GND	Balance	Balance	GND	NC

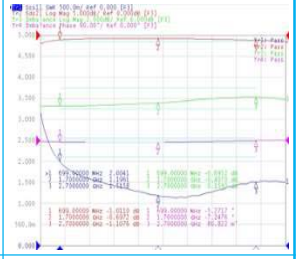
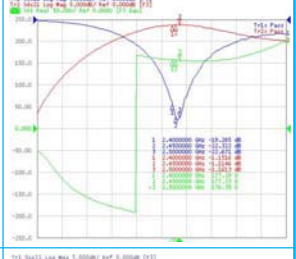
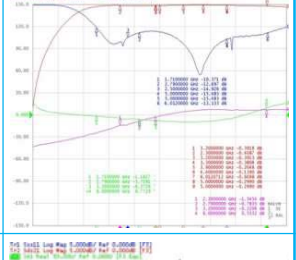
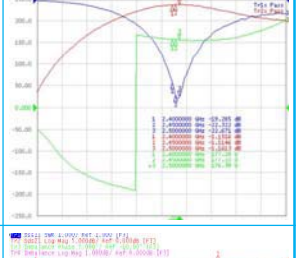
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Electrical Characteristics

Shinohm P/N	Freq. Range (MHz)	I. L. (dB/Max.)	Impedance (Ω)		VSWR (in BW)	Amplitude Diff. (dB)	Phase Diff. (Deg.)	Electrical Characteristics
			Unbalance	Balance				
MGMB0605H2-0790B26	728~960	0.95	50	100	≤ 2.0	≤ 4.8	180 ± 10	
MGMB0605H2-1900B25	1805~2170	0.6	50	100	≤ 2.0	≤ 2.5	180 ± 10	
MGMB0605H2-2500B19	2300~2690	0.6	50	100	≤ 2.0	≤ 2.5	180 ± 10	
MGMB15H2-1900B23	1805~2170	0.6	50	100	≤ 2.0	≤ 2.2	180 ± 10	
MGMB15H2-2450B18	2300~2690	0.6	50	100	≤ 2.0	≤ 2.5	180 ± 10	
MGMB18H1-1686B27	673~2700	1.7 (@+25°C) 2.0 (@-45~+85°C)	50	100	≤ 2.45	≤ 1.5	180 ± 17	

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Electrical Characteristics

Shinohm P/N	Freq. Range (MHz)	I. L. (dB/Max.)	Impedance (Ω)		VSWR (in BW)	Amplitude Diff. (dB)	Phase Diff. (Deg.)	Electrical Characteristics
			Unbalance	Balance				
MGMB18H1-1700B31	699~2700	1.6	50	50	≤ 2.1	≤ 1.0	180 ± 10	
MGMB18H1-2450B12	2400~2500	1.2	50	50	≤ 2.0	≤ 2.0	180 ± 10	
MGMB18H2-1700B32	599~2800	1.7 (@+25°C) 1.9 (@-45~+85°C)	50	100	≤ 2.0	≤ 1.0	180 ± 10	
MGMB18H2-4600B30	3200~6000	1.0 (@+25°C) 1.2 (@-40~+105°C)	50	100	≤ 2.0	≤ 1.2	180 ± 10	
MGMB18H4-2450B20	2400~2500	1.3	50	Matched to AR6003	≤ 2.0	≤ 2.5	180 ± 10	
MGMB21H2-2350B38	1600~3100	1	50	100	≤ 2.0	≤ 1.0	180 ± 10	