

BALANCED FILTER

Multilayer Chip Type

Small Size • Low Loss • High Reliability

Simplify Circuit Design & Tuning



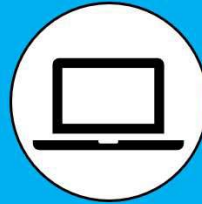
PHONE



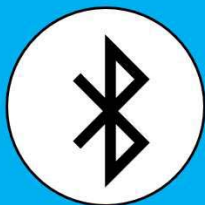
PDA



RF DEVICE



NOTEBOOK



BLUETOOTH



WLAN



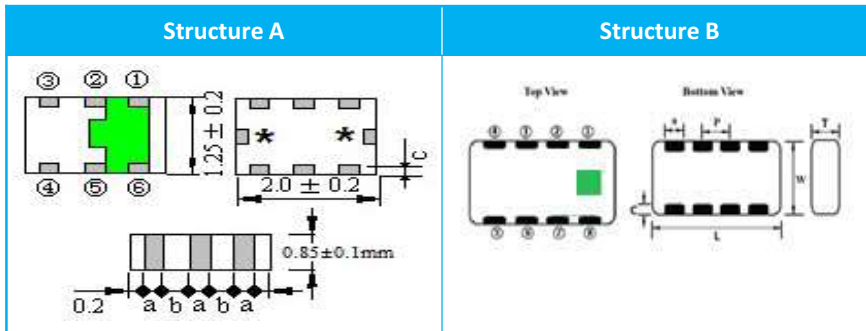
GPS



DVD

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Product Structure

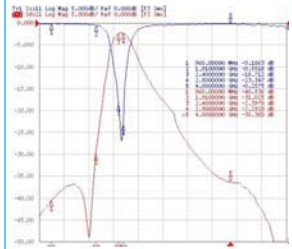
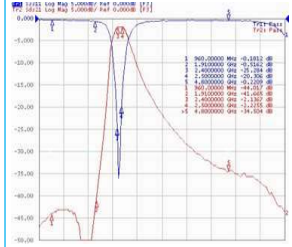
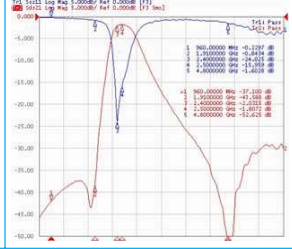
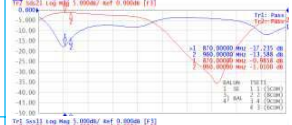
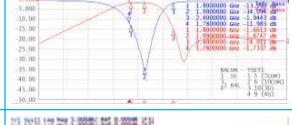
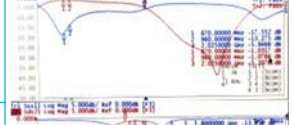
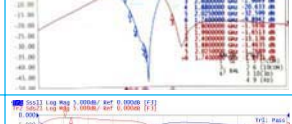



Pin Description & Dimension

Shinhom P/N	Structure	Size (mm)			Pin No. & Description							
		L	W	T	1	2	3	4	5	6	7	8
MBF21M2450H133-M13	A	2.0±0.2	1.25±0.2	1.0±0.1	Unbalance	GND/DC	NC	Balance	GND	Balance		
MBF21M2450P69-M26	A	2.0±0.2	1.25±0.2	0.85±0.1	Unbalance	NC/DC	NC	Balance	GND	Balance		
MBF21M2450P69-M28	A	2.0±0.2	1.25±0.2	0.85±0.1	Unbalance	NC/DC	NC	Balance	GND	Balance		
MDBF21L914H1897M-DB01	B	2.0±0.15	1.25±0.15	0.90±0.1	Unbalance (GSM850 /900)	GND	GND	Unbalance (GSM1800 /1900)	Balance (GSM1800 /1900)	Balance (GSM1800 /1900)	Balance (GSM850 /900)	Balance (GSM850 /900)
MDBF21L914H1897M-DB02H	B	2.0±0.15	1.25±0.15	0.90±0.1								
MDBF21L914H1897M-DB03	B	2.0±0.15	1.25±0.15	0.90±0.1								

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Electrical Characteristics

Shinohm P/N	Freq. Range (MHz)	I. L. (dB/Max.) (@-40~+85°C)	Impedance (Ω)		VSWR (in BW)	Attenuation (dB/Min.)	Phase Diff. (Deg.)	Electrical Characteristics
			Unbalance	Balance				
MBF21M2450H133-M13	2400~2500	3.0 (@25°C) 3.2 (@-40~+85°C)	50	Matched to MT6612	≤2.0	30dB (880~960MHz) 30dB (1710~1990MHz) 25dB (4800~5000MHz)	180±10	
MBF21M2450P69-M26	2400~2500	2.6 (@25°C) 2.8 (@-40~+85°C)	50	Matched to CSR6888	≤2.0	30dB (880~960MHz) 30dB (1710~1990MHz) 30dB (4800~5000MHz)	180±10	
MBF21M2450P69-M28	2400~2500	2.5 (@25°C) 2.8 (@-40~+85°C)	50	50	≤2.0	35dB (880~960MHz) 35dB (1545~1605MHz) 35dB (1710~1910MHz) 45dB (4800~5000MHz)	180±10	
MDBF21L914H1897M-DB01	869~960	1.4 (@25°C) 1.6 (@-40~+85°C)	50	200	Unbalance ≤1.4 Balance ≤1.44	13dB (435~480MHz) 16dB (1738~1920MHz) 28dB (2607~2880MHz) 22dB (2880~6000MHz)	180±15	
	1805~1990	1.6 (@25°C) 1.9 (@-40~+85°C)	50	200	Unbalance ≤1.52 Balance ≤1.52	16dB (902.5~995MHz) 20dB (2400~2500MHz) 15dB (3610~3980MHz) 20dB (5415~5970MHz)	180±15	
MDBF21L914H1897M-DB02H	869~960	1.2 (@25°C) 1.4 (@-40~+85°C)	50	200	Unbalance ≤1.4 Balance ≤1.44	13dB (435~480MHz) 10dB (1738~1920MHz) 20dB (2607~2880MHz)	180±15	
	1805~2025	1.75 (@25°C) 2.1 (@-40~+85°C)	50	200	Unbalance ≤1.52 Balance ≤1.52	13dB (2400~2500MHz) 20dB (3610~3980MHz) 20dB (5415~5970MHz)	180±15	
MDBF21L914H1897M-DB03	869~960	1.8 (@25°C) 2.1 (@-40~+85°C)	50	200	Unbalance ≤1.4 Balance ≤1.44	13dB (435~480MHz) 14dB (1738~1920MHz) 24dB (2607~2880MHz)	180±15	
	1805~1990	2.1 (@25°C) 2.4 (@-40~+85°C)	50	200	Unbalance ≤1.52 Balance ≤1.52	17dB (902.5~995MHz) 15dB (3610~3980MHz) 20dB (5415~5970MHz)	180±15	