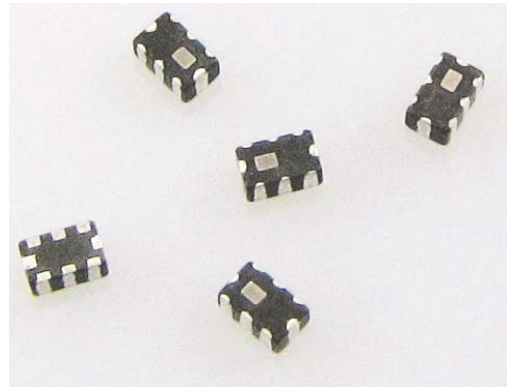


Multilayer Chip Balance Filter 叠层片式巴伦滤波器

FEATURES 特点

- Good performance as small size Band-pass Filter
带通滤波器性能良好
- Low Insertion Loss at the passband and High suppression at the rejection area
带内低插入损耗，带外高抑制
- Phase difference 180 degree and amplitude difference 1dB max.
相位差 180 度和幅度差最大为 1dB
- Compact structure and low material loss
紧凑结构和低材料损耗



APPLICATIONS 应用

- WLAN IEEE 802.11b~g and Bluetooth module. 无线局域网 IEEE802.11b~g 和蓝牙模块
- RF and Wireless Communication system. 射频和无线通讯系统

Product Identification 产品标识

MBF 22 M2450 H132 - M01
① ② ③ ④ ⑤

- ① Series name 系列名称
② Dimension 产品尺寸 L×W: 【22: 2.5mm×2.0mm; 21: 2.0mm×1.25mm; 18: 1.6mm×0.8mm;】
③ Center Frequency 中心工作频率: 2450MHz
④ Via Design Series 过孔结构设计
⑤ Normal Type 标准规格

Product Specification 产品规格简表

Part No. 产品型号	Dimensions 尺寸 L×W(mm)	Unbalance Port Impedance 不平衡端阻抗(Ω)	Balance Port Impedance 平衡端阻抗(Ω)	Center Frequency 中心频率 fo (MHz)	Insertion Loss 插入损耗 (dB)
MBF22M2450H132-M01	2.5×2.0	50	100 (50+50)	2450 MHz	3.0max.(at 25 ° C)
MBF21M2450H155-M12	2.0×1.25	50	55+j50	2450 MHz	2.3max.(at 25 ° C)
MBF21M2450H133-M13	2.0×1.25	50	Conjugate to MT6611,MT6612	2450 MHz	3.5max.(at 25 ° C)
MBF21M2450P69-M16	2.0×1.25	50	Conjugate to BC3,BC4,BC6	2450 MHz	3.5max.(at 25 ° C)
MBF18M2450H133-M18	1.6×0.8	50	Conjugate to MT6616	2450 MHz	3.5max.(at 25 ° C)

Part No. 产品型号: MBF22M2450H132-M01

麦科电子(香港)有限公司 MICROWELL ELECTRON (HK) LIMITED

地址: 深圳市南山区海岸卡夫诺东座 2304

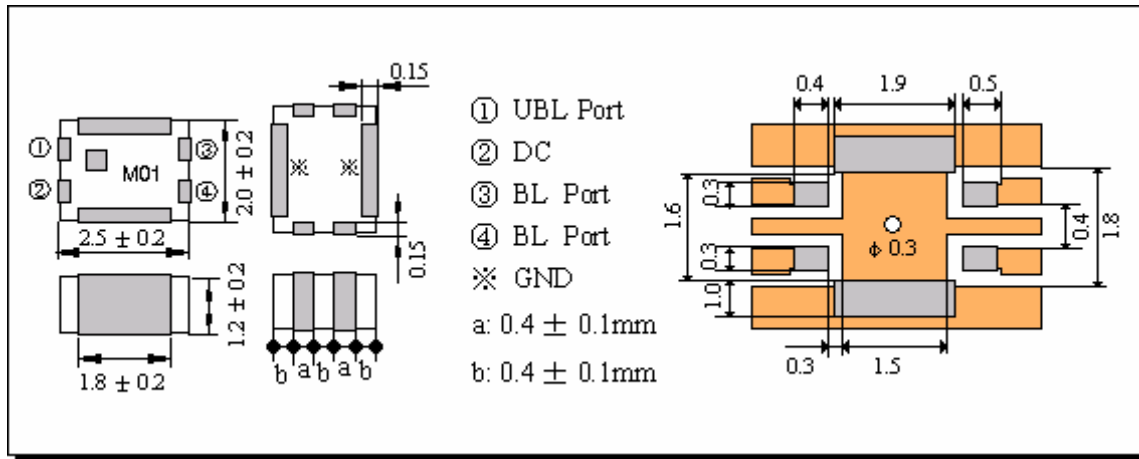
电话(Tel): 86-0755-86655041

传真(Fax): 86-0755-86655115

邮编(Postcode): 518110

Multilayer Chip Balance Filter 叠层片式巴伦滤波器

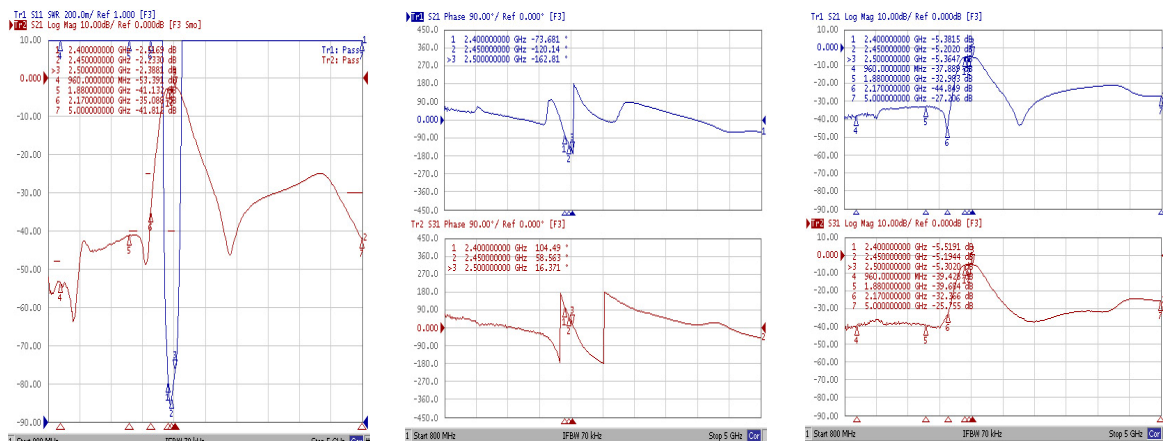
1. Dimensions 外形尺寸 (Unit: mm)



2. Electrical Characteristics 电气性能

No.	Item (项目)	Specifications (特性)
1	Unbalance Port Impedance 不平衡端阻抗	50Ω
2	Balance Port Impedance 平衡端阻抗	100Ω (50Ω+50Ω)
3	Center Frequency 中心频率 f_0	2450.0 MHz
4	Insertion Loss 插入损耗	$\leq 3.0\text{dB}$ (at $25^\circ\text{C} \pm 5^\circ\text{C}$)
		$\leq 3.3\text{dB}$ (at $-40^\circ\text{C} \sim 85^\circ\text{C}$)
5	Band Width 通带宽度	2400~2500 MHz
6	V.S.W.R at Unbalance Port (in BW) 不平衡端驻波比	≤ 2.0 (2400~2500 MHz)
7	Attenuation 阻带衰减	≥ 48 (880~960 MHz)
		≥ 40 (1880~1990 MHz)
		≥ 25 (2110~2170 MHz)
		≥ 30 (4900~5000 MHz)
8	Phase difference 相位差	180 ± 5 Deg.

3. Characteristic curve 特性曲线



Part No. 产品型号: MBF22M2450H155-M12

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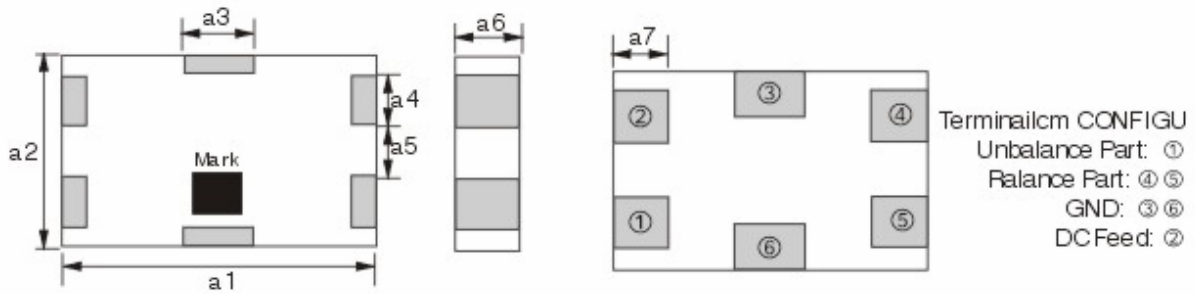
电话(Tel): 86-0755-86655041

传真(Fax): 86-0755-86655115

邮编(Postcode): 518110

Multilayer Chip Balance Filter 叠层片式巴伦滤波器

1. Dimensions 外形尺寸 (Unit: mm)

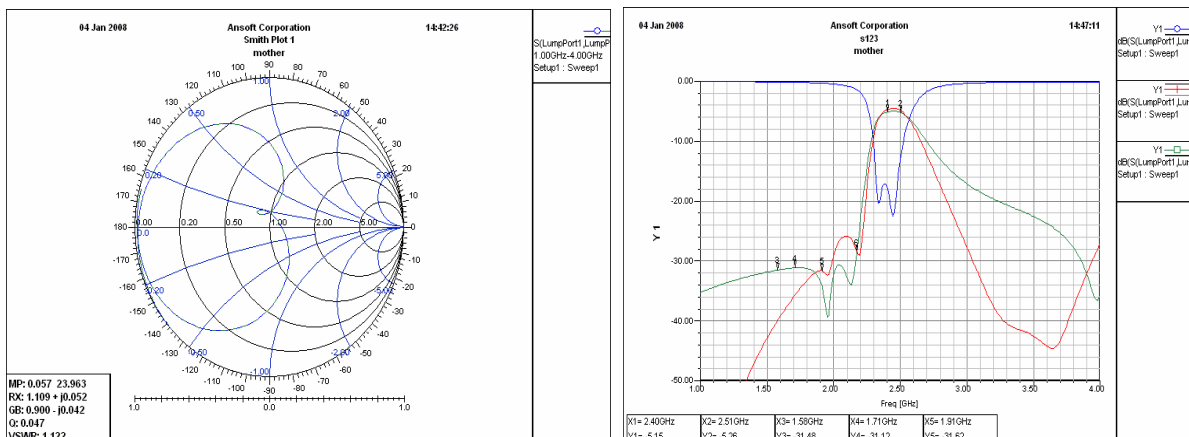


Type 型号	a1	a2	a3	a4	a5	a6	a7
M12	2.0±0.15	1.5±0.15	0.45±0.15	0.4±0.15	0.4±0.15	1.0±0.15	0.35±0.15

2. Electrical Characteristics 电气性能

No.	Item (项目)	Specifications (特性)
1	Unbalance Port Impedance 不平衡端阻抗	50Ω
2	Balance Port Impedance 平衡端阻抗	55+j50
3	Center Frequency 中心频率 fo	2450.0 MHz
4	Insertion Loss 插入损耗	≤2.3dB (at 25℃±5℃)
		≤2.8dB (at -40℃~85℃)
5	Band Width 通带宽度	2400~2500 MHz
6	V.S.W.R at Unbalance Port (in BW)不平衡端驻波比	≤2.0 (2400~2500 MHz)
7	Attenuation 阻带衰减	≥35 (DC~960 MHz)
		≥31 (1570~1990 MHz)
		≥26 (2110~2170 MHz)
		≥20 (4800~5000 MHz)
8	Phase difference 相位差	180±5 Deg.

3. Characteristic curve 特性曲线



Part No. 产品型号: MBF21M2450H132-M13

麦科电子(香港)有限公司 MICROWELL ELECTRON (HK) LIMITED

地址: 深圳市南山区海岸卡夫诺东座 2304

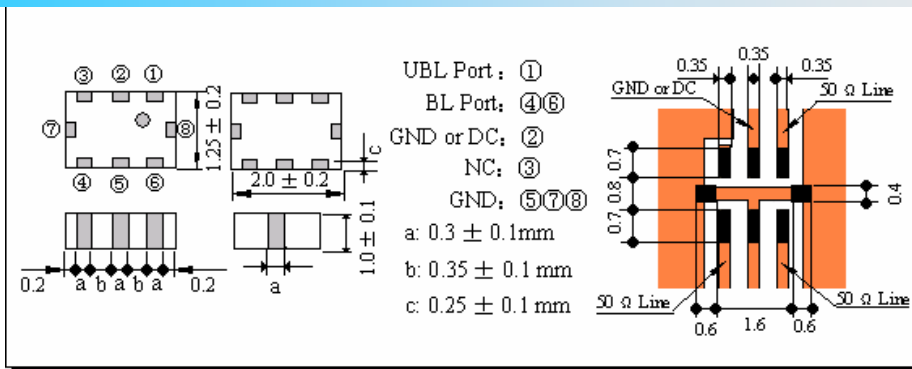
电话(Tel): 86-0755-86655041

传真(Fax): 86-0755-86655115

邮编(Postcode): 518110

Multilayer Chip Balance Filter 叠层片式巴伦滤波器

1. Dimensions 外形尺寸 (Unit: mm)



2. Electrical Characteristics 电气性能

No.	Item (项目)	Specifications (特性)
1	Unbalance Port Impedance 不平衡端阻抗	50Ω
2	Balance Port Impedance 平衡端阻抗	Conjugate to BC3,BC4,BC6
3	Center Frequency 中心频率 f_0	2450.0 MHz
4	Insertion Loss 插入损耗	≤ 3.5 dB (at 25°C ± 5°C)
		≤ 3.8 dB (at -40°C ~ 85°C)
5	Band Width 通带宽度	2400 ~ 2500 MHz
6	V.S.W.R	≤ 2.0 (2400 ~ 2500 MHz)
7	Attenuation 阻带衰减	≥ 35 (880 ~ 960 MHz) ≥ 20 (1710 ~ 1990 MHz) ≥ 12 (1990 ~ 2170 MHz) ≥ 20 (4800 ~ 5000 MHz) ≥ 20 (7200 ~ 7500 MHz)
8	Phase difference 相位差	180 ± 10 Deg.

3. Characteristic curve 特性曲线

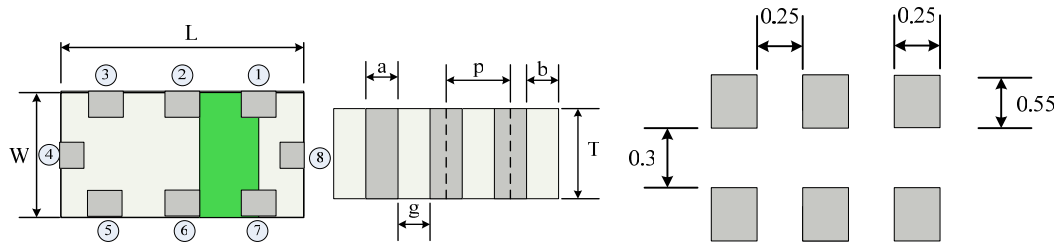


Multilayer Chip Balance Filter 叠层片式巴伦滤波器

Part No. 产品型号: MBF21M2450H132-M18

1. Dimensions 外形尺寸 (Unit: mm)

① Unbalance Port ④⑥⑧ GND ② GND or DC feed ⑤⑦ Balance Port ③ NC



Dimensions and Land Pattern

Mark	W	L	T	a	b	g	p
Dimensions(mm)	0.8±0.1	1.6±0.1	0.6±0.1	0.2±0.1	0.2±0.1	0.3±0.1	0.5±0.1

2. Electrical Characteristics 电气性能

No.	Item (项目)	Specifications (特性)
1	Unbalance Port Impedance	50Ω
2	Balance Port Impedance	Conjugate to MT6616
3	Center Frequency 中心频率 f_0	2450.0 MHz
4	Insertion Loss 插入损耗	≤3.5dB (at 25℃±5℃)
		≤3.8dB (at -40℃~85℃)
5	Band Width 通带宽度	2400~2500 MHz
6	V.S.W.R at Unbalance Port (in BW) 不平衡端驻波比	≤2.0 (2400~2500 MHz)
7	Attenuation 阻带衰减	≥30 (880~960 MHz)
		≥25 (1710~1990 MHz)
		≥35 (4800~5000 MHz)
8	Phase difference 相位差	180±10 Deg.

3. Characteristic curve 特性曲线

