

客户 Customer: _____

日期 DATE: _____

纳入仕様书 SPECIFICATION

产品名称 PRODUCT NAME: 声表滤波器

SAW Filter

贵司料号 YOUR PART NO.:

敝司料号 OUR PART NO.: MS14U1G57-G1

版本号 VERSION.: V1.3

接受 RECEPTION

THE SPECIFICATION HAS BEEN ACCEPTED.

该纳入仕様书已被我司接受

日期:
DATE:

公司:
COMPANY:

批准
CFMD

审核
CHKD

接收
RCVD

深圳市麦捷微电子科技股份有限公司
SHENZHEN MICROGATE TECHNOLOGY CO., LTD
TEL: 86-755-28085000
FAX: 86-755-28085605

CFMD. 批准	CHKD. 审核	DSGD. 担当
姚艳龙	赖定权	吴继航

深圳市麦捷微电子科技股份有限公司
地址: 深圳市龙华新区观澜街道高尔夫大道裕新路 65 号
电话(Tel): 0755-28085000 传真(Fax): 0755-28085605

邮编(Postcode): 518110

纳入仕様书改定履历

MODIFY HISTORY OF SPECIFICATION

NO.	修改日期/DATE	修改内容/CONTENT	批准/APPROVED
1.0	2015.05.16	初稿 /New Released	梁启新
1.1	2018.09.26	版本升级/Version Upgrade	姚艳龙
1.2	2018.12.16	版本升级/Version Upgrade	姚艳龙
1.3	2019.05.08	版本升级/Version Upgrade	姚艳龙

目录 CATALOG

1	适用范围 Scope.....	4
2	品名构成 Product Identification.....	4
3	尺寸和管脚定义 Dimensions and PIN Configurations.....	4
4	推荐焊盘与测试电路 Recommended Land Pattern and Test Circuit.....	4
5	电气性能 Electrical Characteristics.....	5
6	包装 Packaging.....	7
7	装箱清单及标志 Packing documents and marking.....	8
8	保管 Storage.....	10

1 适用范围 Scope

麦捷声表滤波器系列产品设计用于 WIFI、GPS、移动电话和无绳电话机等相关市场中。

Microgate SAW Component is applicable for WIFI/GPS/Mobile phone/Cordless phone relevant market.

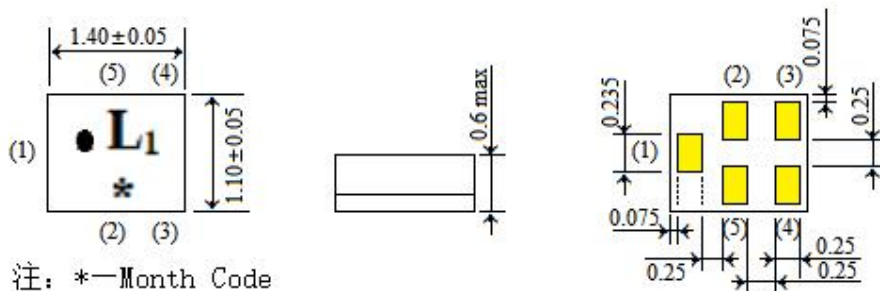
2 品名构成 Product Identification

MS 14 U 1G57 - G 1
① ② ③ ④ ⑤ ⑥

- ① 麦捷声表滤波器/Microgate SAW
- ② 尺寸/Size: 14 (20-2016, 18-1814, 15-1511, 14-1411, 11-1109)
- ③ 输出/Output: U (B-Balance out, U-Unbalance out)
- ④ 频率/Frequency: 1G57 (1G57-1.57GHz)
- ⑤ 型号/Type: G (GPS: Global Position System, 全球定位系统)
- ⑥ 频段/Band: 1 (1: GPS 频段; 2: GPS +GLONASS 频段; 3: GPS +GLONASS+北斗 2 频段)

3 尺寸和管脚定义 Dimensions and PIN Configurations

Unit: mm



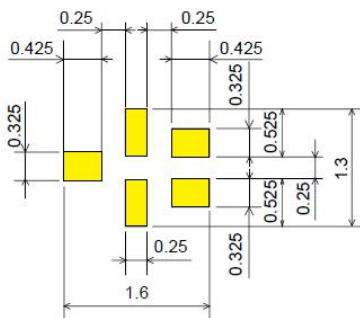
注: *—Month Code

PIN NO.	(1)	(2)	(3)	(4)	(5)
PIN Name	Input	GND	GND	Output	GND

4 推荐焊盘与测试电路 Recommended Land Pattern and Test Circuit

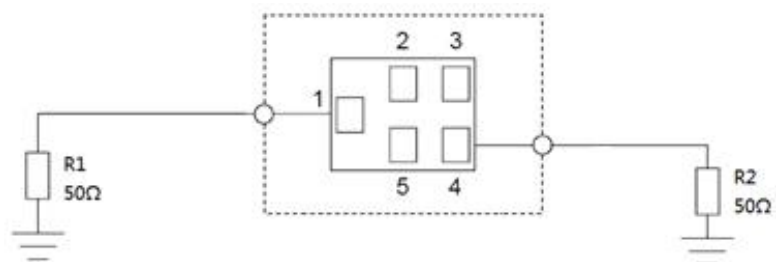
Land Pattern

Unit:mm



Test Circuit

Bottom View



深圳市麦捷微电子科技股份有限公司

地址: 深圳市龙华新区观澜街道高尔夫大道裕新路 65 号

电话(Tel): 0755-28085000

传真(Fax): 0755-28085605

邮编(Postcode): 518110

4

5 电气性能 Electrical Characteristics

操作温度范围 Operating Temperature Range : -20 to +85°C

保存温度范围 Storage Temperature Range : -40 to +85°C

测试温度范围 Test Temperature: 25°C±2°C

湿度敏感等级 Moisture Sensitivity Level: MSL 2a

静电敏感等级 Electrostatic Discharge(ESD) Sensitivity: 250V (Human Body Model)

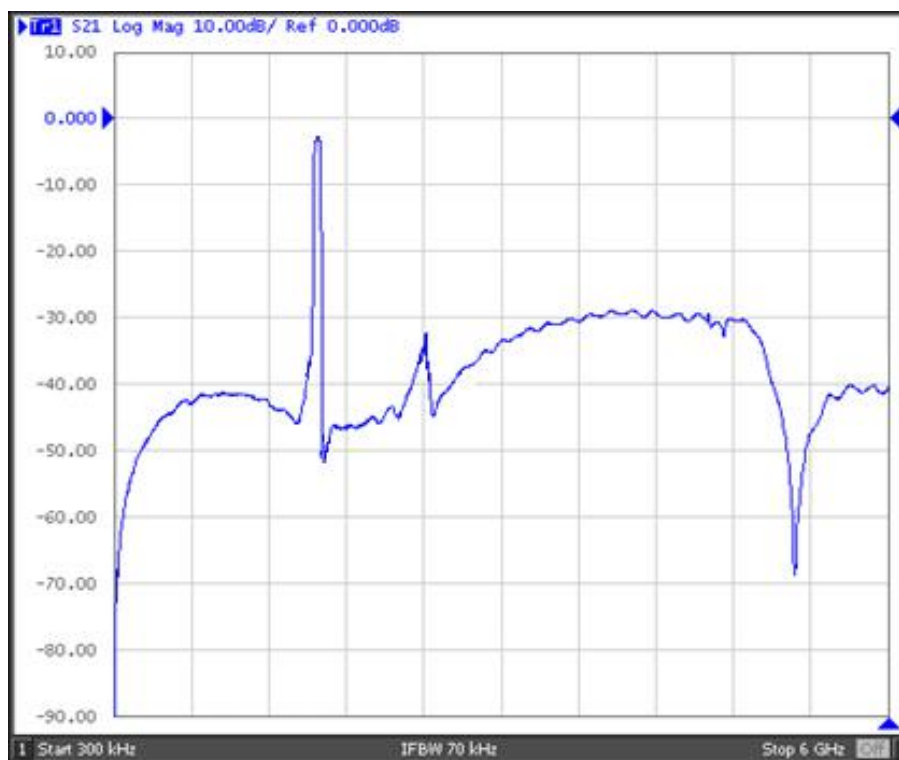
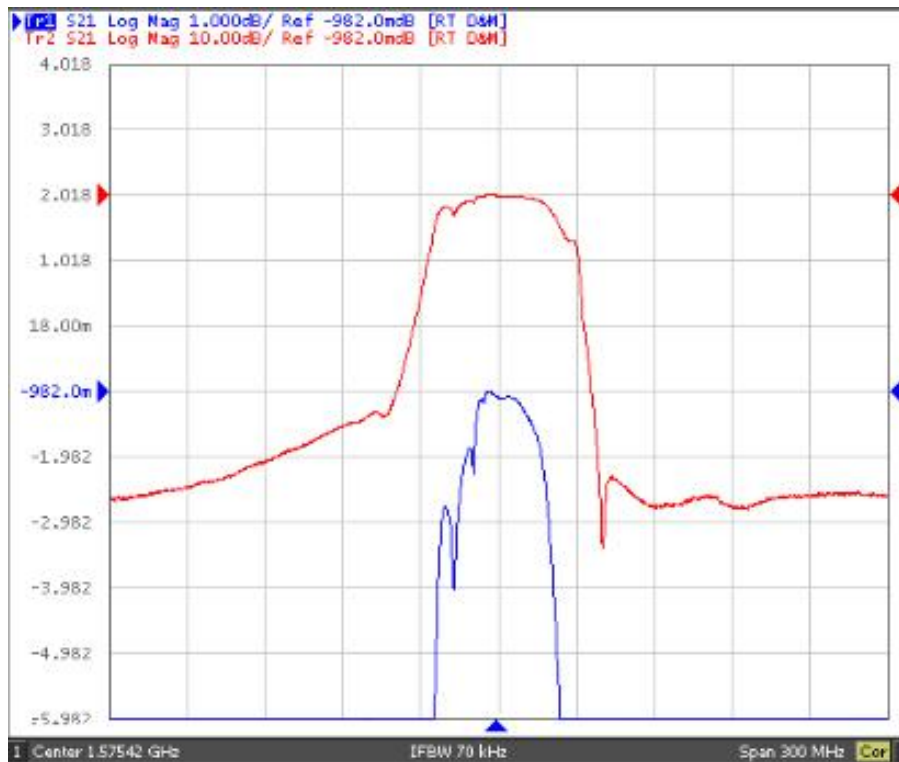
端口电压 D.C. Volatage between the terminals: 3V (25°C±2°C)

Table1. Electrical Specification

No.	Item	Frequency (MHz)	Specification			
			Min	Max	Typ.	Unit
1	Insertion Loss	1574.42 ~ 1576.42		1.3	0.9	dB
2	Ripple Deviation			0.6	0.05	dB
3	Group Delay Ripple			20	5	ns
3	Absolute Attenuation	DC ~ 880	41		46	dB
4		880 ~ 915	41		46	dB
5		915 ~ 1435	40		46	dB
6		1435 ~ 1525	35		40	dB
7		1625 ~ 1710	40		52	dB
8		1710 ~ 2050	45		50	dB
9		2050 ~ 2250	40		50	dB
10		2250 ~ 2400	30		35	dB
11		2400 ~ 2700	30		35	dB
12		2700 ~ 6000	25		28	dB
13	Input VSWR	1574.42 ~ 1576.42		2.0	1.2	
14	Output VSWR			2.0	1.2	
15	Input Signal Level	Max: 10dBm,				

Frequency Performance

Frequency Response



深圳市麦捷微电子科技股份有限公司

地址：深圳市龙华新区观澜街道高尔夫大道裕新路 65 号

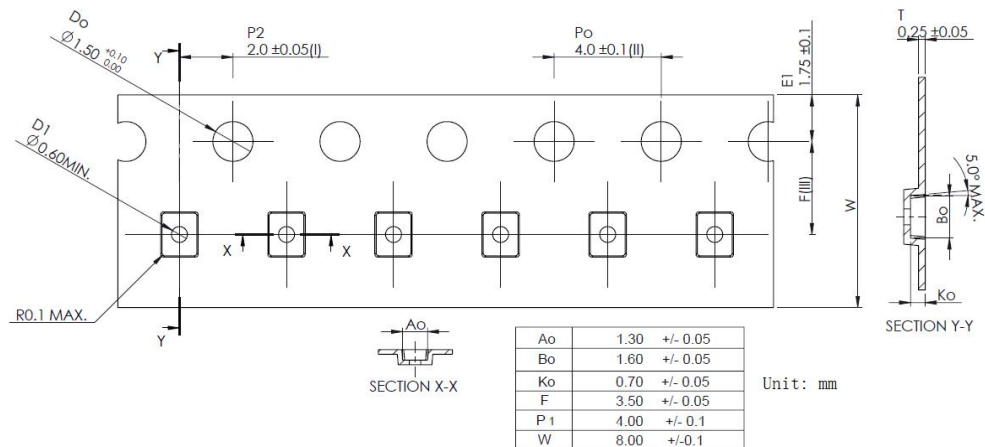
电话(Tel): 0755-28085000

传真(Fax): 0755-28085605

邮编(Postcode): 518110

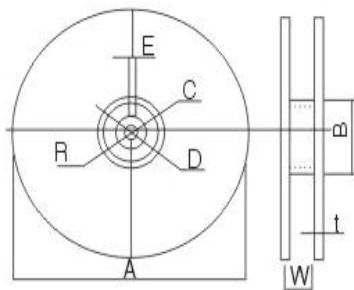
6 包装 Packaging

① 编带尺寸 Dimensions of Tape:



② 带轮尺寸 Dimensions of Reel

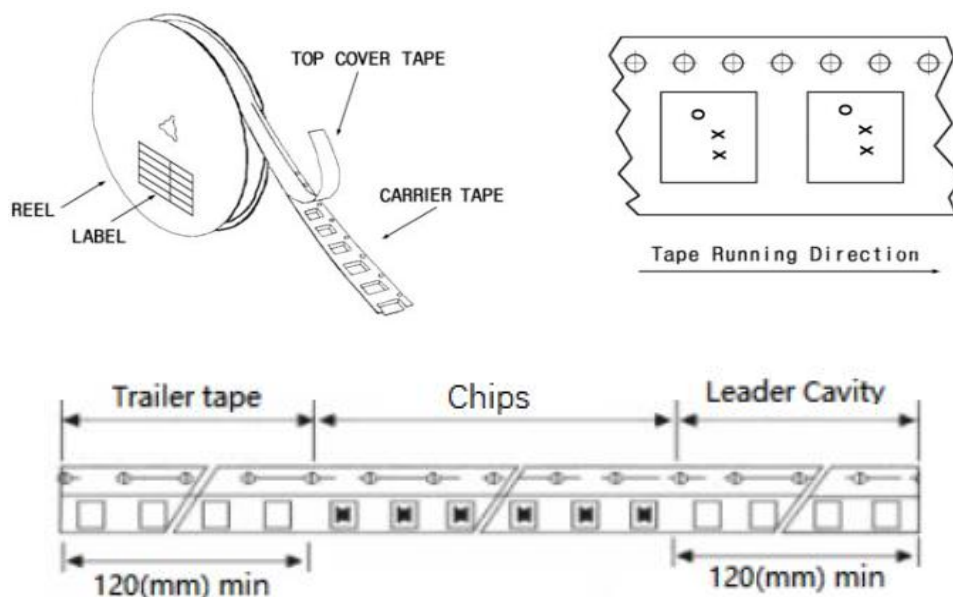
Unit: mm



Reel material: PS (Polystyrene)

A	178±2
B	60±2
C	13.0±0.5
D	21.0±0.8
E	2.0±0.5
W	8.5±1.0
t	1.2±0.2
R	1.0±0.25

③ 编带简图及拉伸方向 Taping figure and drawing direction:



深圳市麦捷微电子科技股份有限公司

地址: 深圳市龙华新区观澜街道高尔夫大道裕新路 65 号

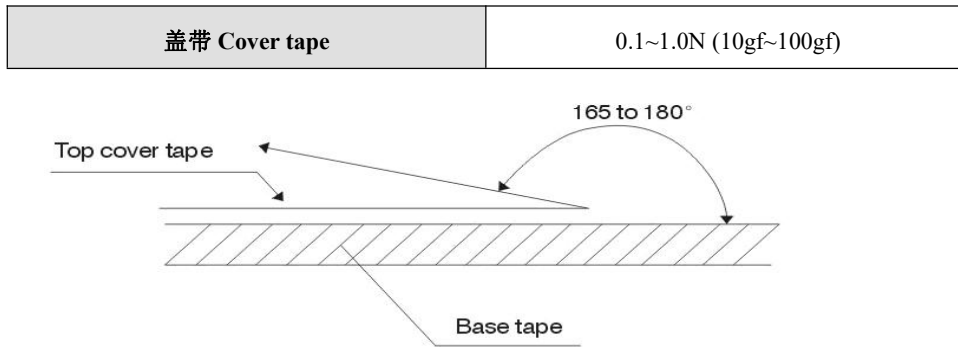
电话(Tel): 0755-28085000

传真(Fax): 0755-28085605

邮编(Postcode): 518110

7

④ 盖带的剥离强度 Peeling strength of cover tape:



测试条件 Test condition:

- 1) 剥离角度 peel angle: 165°~180° vs. carrier tape.
- 2) 剥离速度 peel speed: 300mm/min±10%.

⑤ 包装数量 Packaging quantities: 3000 PCS / Reel

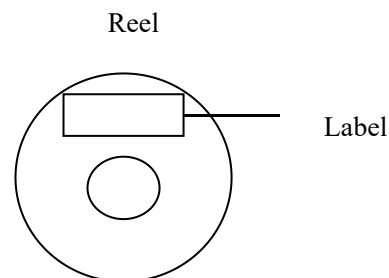
7 装箱清单及标志 Packing documents and marking

① 包装文件 Packing documents

- a. 装箱清单 Packing list.
- b. 合格证书 Certificate of compliance.

② 盘上标记 Marking on reels:

- a. 麦捷料号 MICROGATE Part No.
- b. 生产批号 Lot number
- c. 盘装数量 Quantity per reel
- d. 检验员号 Inspector No.



以上内容必须在标签上注明. All above shall be shown on marking label

麦捷公司标签如下所示: MICROGATE marking label will be as following:

MICROGATE		
CUSTOMER:	P. O. NO	
CUSTOMER PART NO:	DATE CODE	LOT NO
MG PART NO:	QUANTITY	INSP. NO

MG PART NO

深圳市麦捷微电子科技股份有限公司

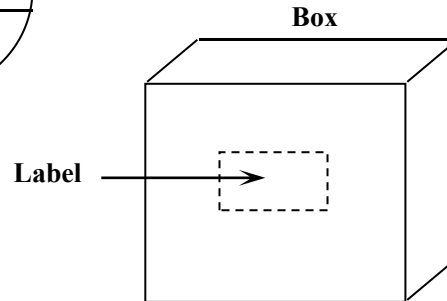
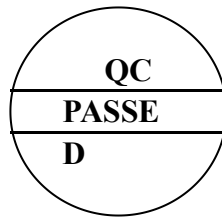
地址: 深圳市龙华新区观澜街道高尔夫大道裕新路 65 号

电话(Tel): 0755-28085000

传真(Fax): 0755-28085605

邮编(Postcode): 518110

检验合格后, 检验员在标签上盖上合格章。合格章如下所示: The eligible reels will be pressed a mark onto the surface. The mark will be as following:



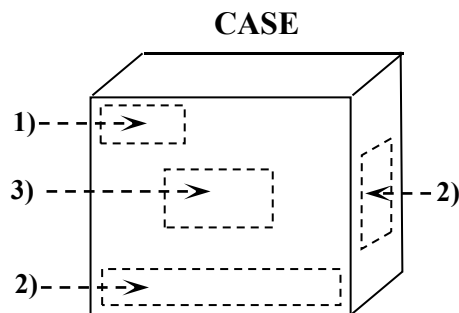
③ 内包装盒标记: Marking on inner box

- a. 型号 MICROGATE part No.
- b. 每盒数量 Quantity per box
- c. 包装日期 Date

以上内容必须在标签上注明 (标签见 7.2 所示)。Above shall be shown on marking label (The marking label is shown in item 7.2).

④ 外包装箱标记 Marking on outer case:

- 1) 制造商 Manufacturer: "MICROGATE" ①
- "中国深圳制造" "Made in Shenzhen CHINA" ②
- 2) 发运标记 Ship marking:
"向上" "UP", "小心轻放" "HAND CARE", "防潮" "MOISTURE-PROOF".
- 3) 包装标签包括以下内容 Packing label include the following:
 - a. 型号 MICROGATE Part No
 - b. 总数量 Total quantity per case
 - c. 包装日期 Date;



以上内容必须在标签上注明。(参见 7.2 所示)

All above shall be shown on marking label. (The marking label is shown in item 7.2)

8 保管 Storage

保存条件 Storage conditions

- 存放货物的库房应满足以下条件 Products should be storage in the warehouse on the following conditions

温度 Temperature: $\leq 40^{\circ}\text{C}$

湿度 Humidity : $\leq 70\%$ relative humidity

不允许温、湿度有极剧变化。No rapid change on temperature and humidity

- 禁止将产品保管在腐蚀性物质中，例如硫磺、氯气或者酸，否则将引起端头氧化，导致降低焊接性。
Don't keep products in corrosive gases such as sulfur, chlorine gas or acid, or it may cause oxidization of electrode, resulting in poor solder ability.
- 为了避免受潮气、灰尘等物质的影响，产品应保管于货架上。Products should be storage on the palette for the prevention of the influence from humidity, dust and so on.
- 产品保管在库房中时，应避免热冲击，振动以及直接光照等等。Products should be storage in the warehouse without heat shock, vibration, and direct sunlight and so on.
- 产品应密封包装 Products should be storage under the airtight packaged condition.