

客户 Customer: _____

日期 DATE: _____

纳入仕様书

SPECIFICATION

产 品 名 称 PRODUCT NAME: 微波低通滤波器

Microwave Low-Pass Filter

贵 司 料 号 YOUR PART NO.: _____

敝 司 料 号 OUR PART NO.: MLPF18M1700P69-L35A

版 本 号 VERSION.: V1.1

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

本纳入仕様书共 8 页

MANUFACTURING NAME

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
梁启新	付迎华	曾艳锋

深圳市麦捷微电子科技股份有限公司

地址: 深圳市坪山新区坪山大道 6075 号龙田科技园二巷 6 号

电话(Tel): 0755-28085000

传真(Fax): 0755-28085605

邮编(Postcode): 518118

1

纳入仕様书改定履历 **MODIFY HISTORY OF SPECIFICATION**

Ver.	DATE	CONTENT	APPROVED
1.0	2019.09.20	初稿 Constitute	梁启新
1.1	2020.10.19	增加器件 pin1 脚在包装中的位置 Add Position of comnponent Pin1 in Packing	付迎华

目录 CATALOG

1 适用范围 Scope.....	4
2 品名构成 Product Identification.....	4
3 形状、尺寸和材料 Appearance, Dimensions and Material.....	4
4 测试条件 Testing Conditions.....	5
5 电气性能 Electrical Characteristics.....	5
6 焊接条件 Recommended Soldering Conditions.....	6
7 包装 Packaging.....	7

1 适用范围 Scope

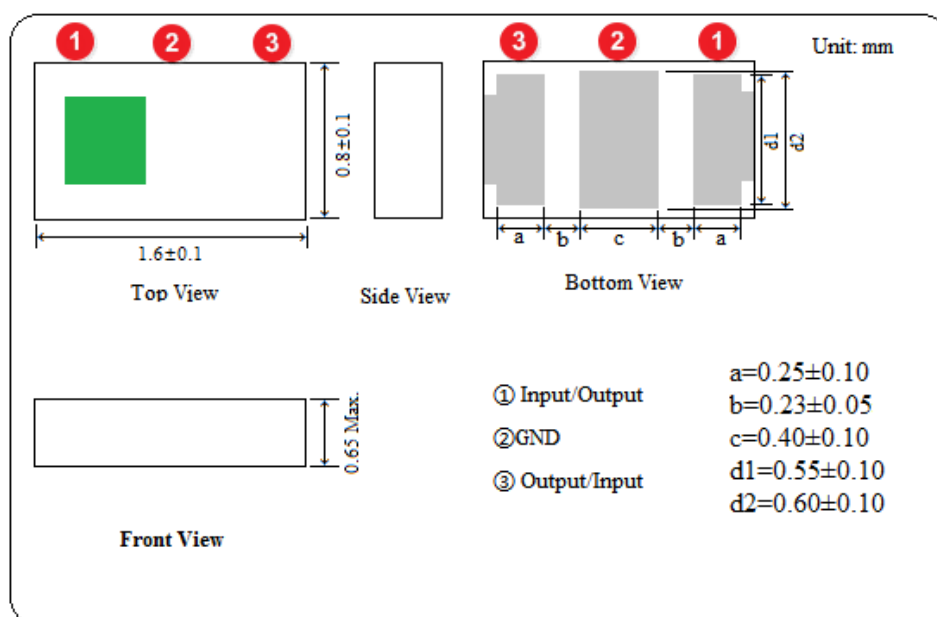
“麦捷”微波低通滤波器系列产品设计用于 5G、LTE、WIFI、Bluetooth、PDA 和无绳电话机中，具有低的插入损耗、高的衰减和小体积 SMD 片式设计，能减少复杂的调校工作，可以简化电路设计。

“Microgate” Microwave Low-Pass filter series are designed to be used in 5G、LTE、WIFI、Bluetooth、PDA & cordless phones with low insertion loss and high attenuation as well as small size SMD chip design, which can simplify your complex tuning and circuit design.

2 品名构成 Product Identification



3 形状、尺寸和材料 Appearance, Dimensions and Material



Part Name 名称	Structure and Material 结构及材料
Resonator 谐振体	Dielectric Material LTCC 介质材料
In/Output Terminals 输入/输出	Ag 银
Ground Base 接地面	Ag 银

4 测试条件 Testing Conditions

除非另有规定，否则在以下条件下测试 <Unless otherwise specified>

温度 Temperature : Ordinary Temperature (-40 to +85°C)

湿度 Humidity : Ordinary Humidity (25 to 85% RH)

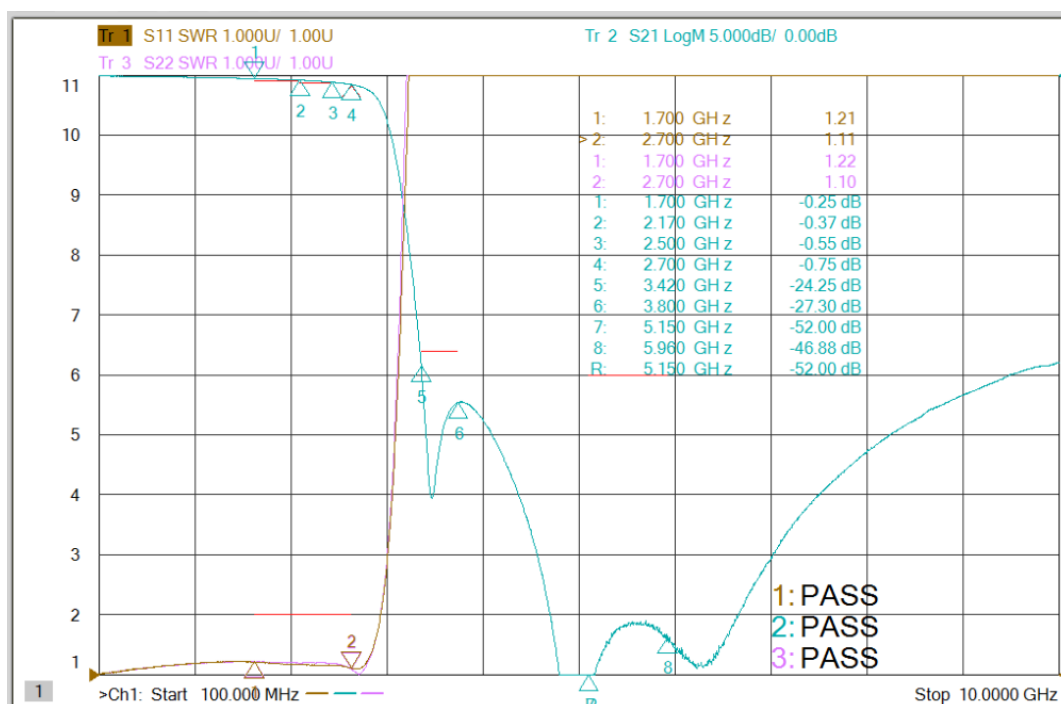
大气压强 Atmospheric Pressure : 86 to 106 kPa

5 电气性能 Electrical Characteristics

操作温度范围 Operating Temperature Range : -40 to +85°C

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

No.	Item (项目)	Specifications (特性)
5.1	Frequency Range 频率范围	1700~2700MHz
5.2	Insertion Loss 插入损耗(+25°C)	0.50 dB max.@1700 ~ 2170 MHz 0.65 dB max.@ 2170 ~ 2500 MHz 0.90 dB max.@ 2500 ~ 2700 MHz
	Insertion Loss 插入损耗(-40 ~ +85°C)	0.60 dB max.@1700 ~ 2170 MHz 0.75 dB max.@ 2170 ~ 2500 MHz 1.00 dB max.@ 2500 ~ 2700 MHz
5.3	V.S.W.R (in BW) 驻波比	≤2.0
5.4	Attenuation 阻带衰耗	≥23dB (3420~3800MHz) ≥25dB (5150~5960MHz)
5.5	Impedance 阻抗	50 Ω
5.6	Power Capacity 功率容量	2W max.



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6 焊接条件 Recommended Soldering Conditions

1、焊剂 Flux, Solder

① 使用松香助焊剂，禁止使用卤化物含量超过 0.2wt% 的强酸性助焊剂。

Use rosin-based flux. Don't use highly acidic flux with halide content exceeding 0.2wt% (chlorine conversion value).

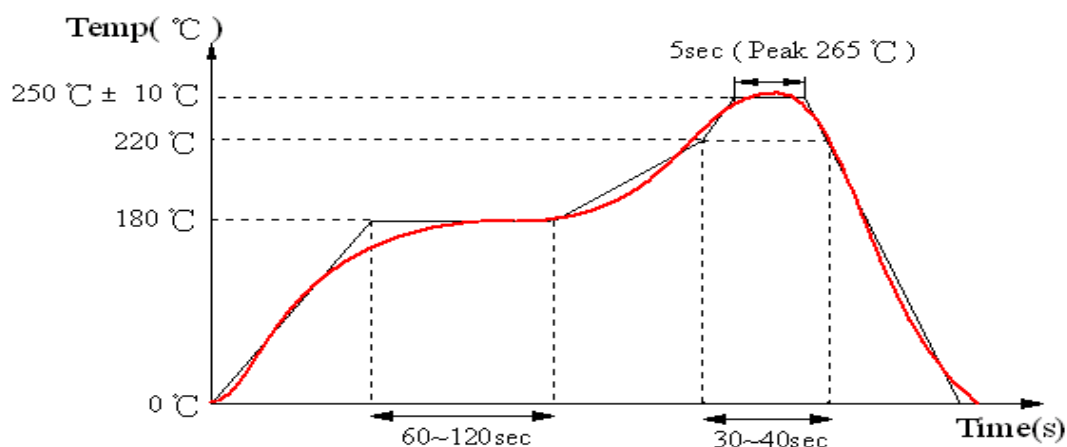
② 使用纯锡焊料 Use Sn solder.

2、回流焊条件 Reflow soldering conditions

● 预热时，产品表温与焊料温度的温差最大不允许超出 150℃，焊接完后冷却时，产品表温与溶剂温度之间的温差最大不允许超出 100℃。预热不足有可能引发产品表面裂纹，导致产品品质下降。

Pre-heating should be in such a way that the temperature difference between solder and product surface is limited to 150℃ max. Cooling into solvent after soldering also should be in such a way that temperature difference is limited to 100℃ max. Unwrought pre-heating may cause cracks on the product, resulting in the deterioration of products quality.

● 标准回流焊曲线 Standard soldering profile.



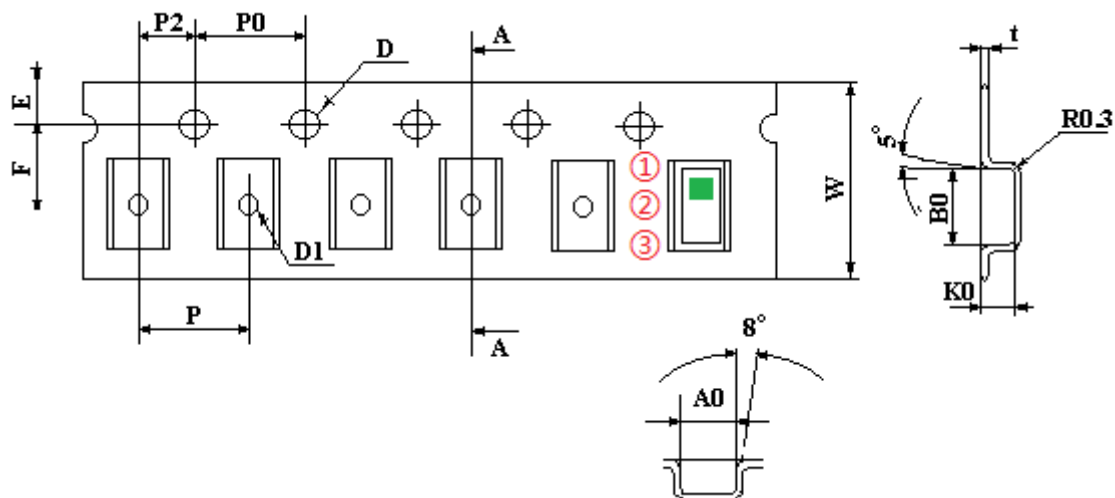
3、手工返工 Reworking with soldering iron

当使用电烙铁进行手工焊接时，以下条件必须严格遵守 The following conditions must be strictly followed when using a soldering iron.

预热 Pre-heating	150℃, 1 minute
尖端温度 Tip temperature	350℃ max
输出功率 Soldering iron output	80w max
电烙铁头尖端尺寸 End of soldering iron	φ3mm max
焊接时间 Soldering time	3 seconds max

7 包装 Packaging

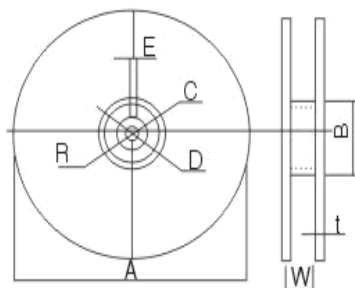
①编带尺寸 Dimensions of Tape:



W	P	E	F	P2	D	D1
$8.00+0.30/-0.10$	4.00 ± 0.10	1.75 ± 0.10	3.50 ± 0.05	2.00 ± 0.05	$1.50+0.10/-0.00$	$0.70+0.25/-0.10$
P0	10P0	A0	B0	K0	T	Tape Material
4.00 ± 0.10	40.00 ± 0.20	0.95 ± 0.10	1.82 ± 0.10	0.75 ± 0.10	0.22 ± 0.05	塑带 plastic carrier tape

②带轮尺寸 Dimensions of Reel

Unit: mm



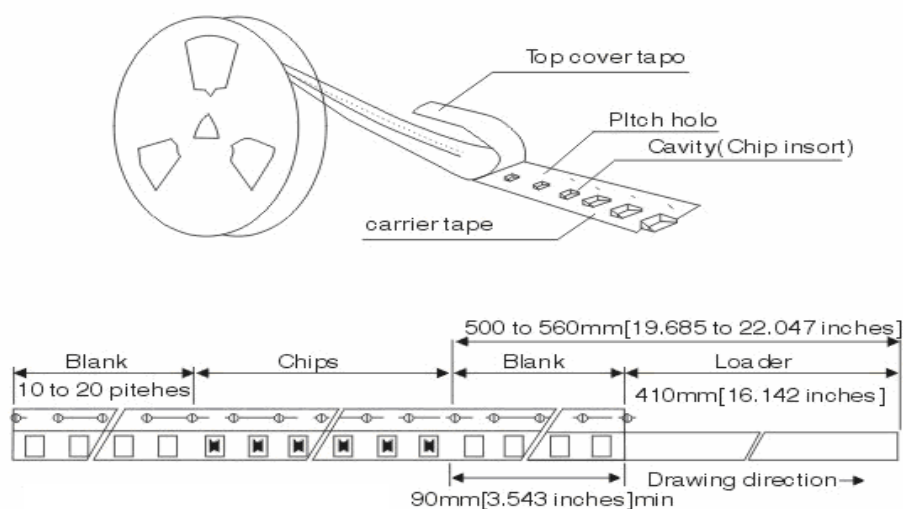
Reel material: PS (Polystyrene)

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编带抗拉强度 Pulling strength of tapes:

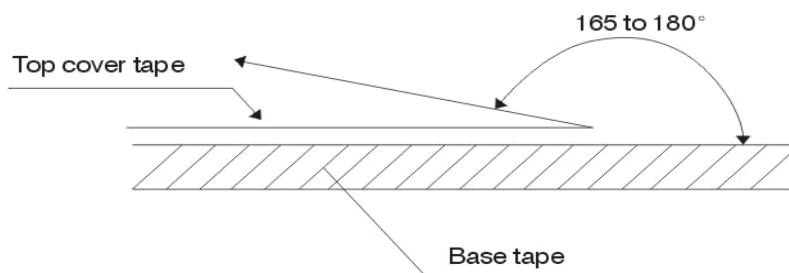
载带 Carrier tape	10N or more (1kgf or more)
上盖带 Cover tape	5N or more (1kgf or more)

④编带简图及拉伸方向 Taping figure and drawing direction:



⑤盖带的剥离强度 Peeling strength of cover tape:

盖带 Cover tape	0.2~0.6N (20gf~60gf)
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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%.

⑥ 包装数量 Packaging quantities: 4000 PCS / Reel