

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.: MLPF18M1850P69-L21

版本号 VERSION.: V2.0

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

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

NO.	DATE	CONTENT	APPROVED
1.0	2018.05.16	初稿 Constitute	梁启新
2.0	2020.11.16	更新包装方式 Modify Packaging	付迎华

## 目录 CATALOG

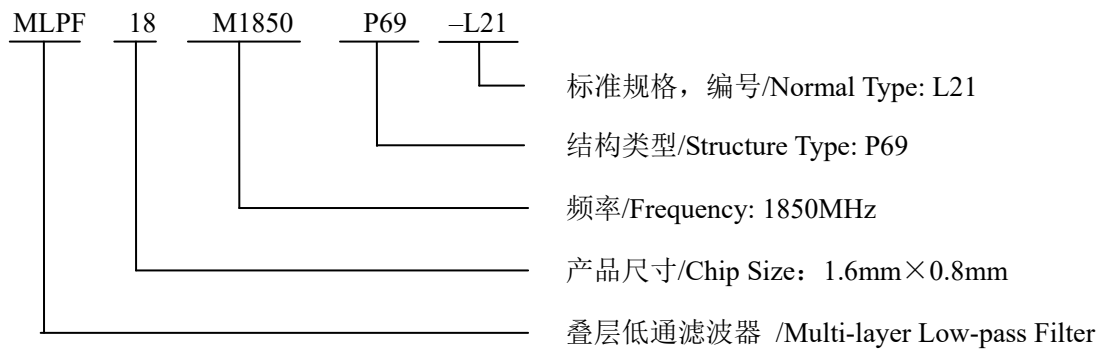
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## 1 适用范围 Scope

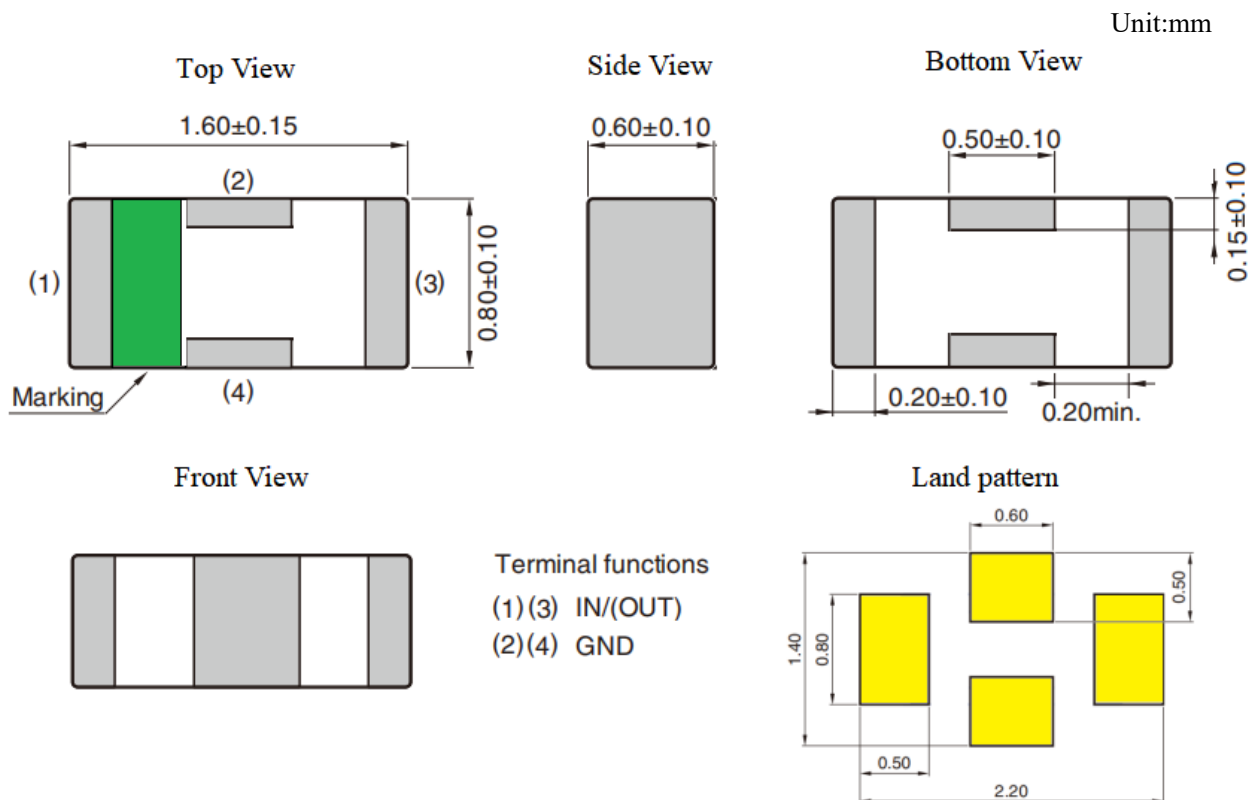
“麦捷”微波低通滤波器系列产品设计用于 WIFI、GSM、Bluetooth、PDA 和无绳电话机中，具有低的插入损耗、高的衰减和小体积 SMD 片式设计，能减少复杂的调校工作，可以简化电路设计。

“Microgate” Microwave Band-Pass filter series are designed to be used in WLAN、GSM、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 形状和尺寸 Appearance and Dimensions



## 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)

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

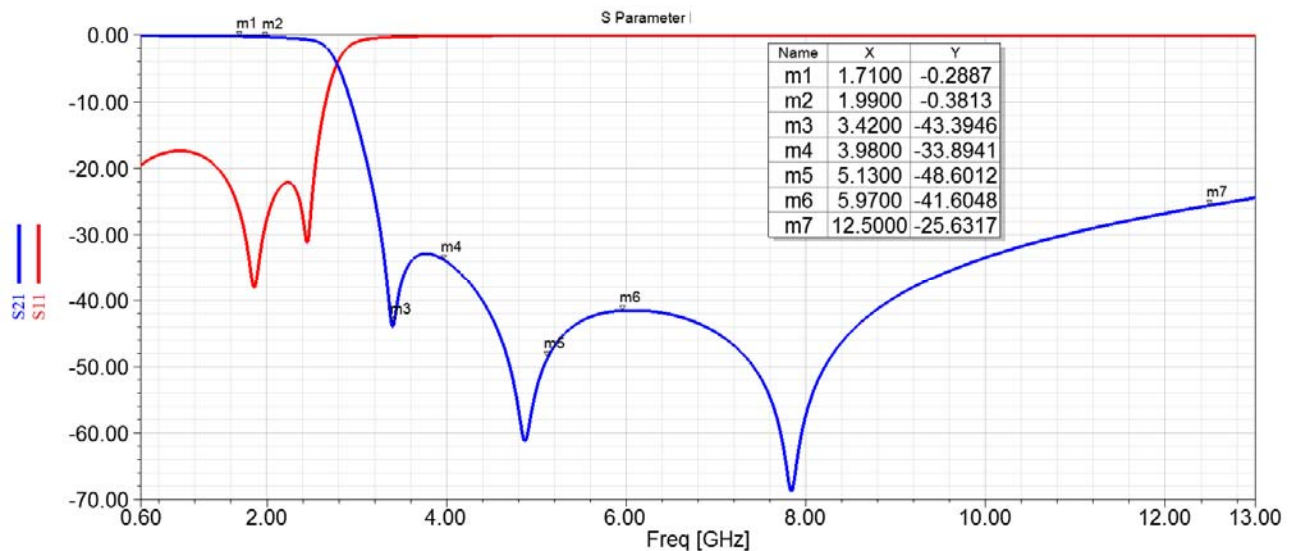
大气压强 Atmospheric Pressure : 86 to 106 kPa

## 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	1710~1990MHz
5.2	Insertion Loss 插入衰耗	0.5 dB max (at 25 °C) 0.6 dB max (at -40 ~ +85 °C)
5.3	V.S.W.R (in BW) 驻波比	≤2.0
5.4	Attenuation 阻带衰耗	≥30dB (3420MHz~3980MHz) ≥28dB (5130MHz~5970MHz) ≥25dB (5970MHz~12500MHz)
5.5	Power Capacity 功率容量	3.0 W Max.



## 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).

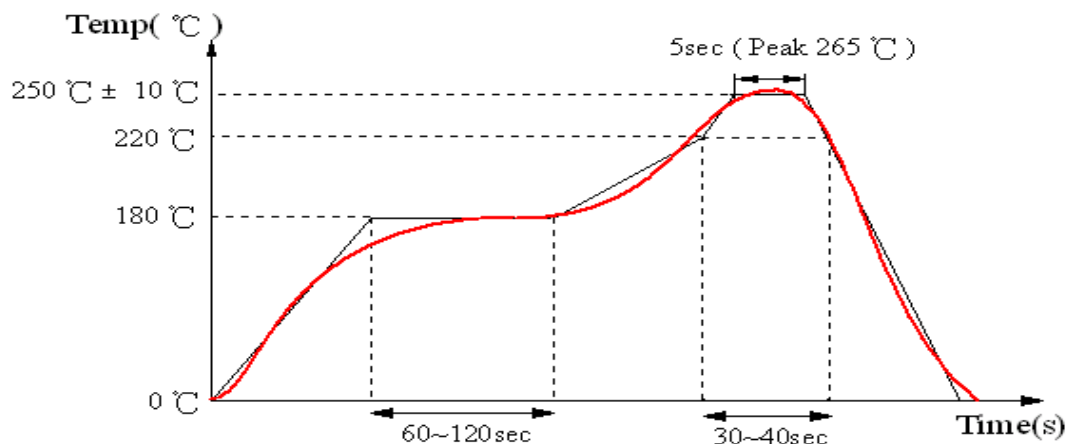
② 使用纯锡焊料 Use Sn solder.

### 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.



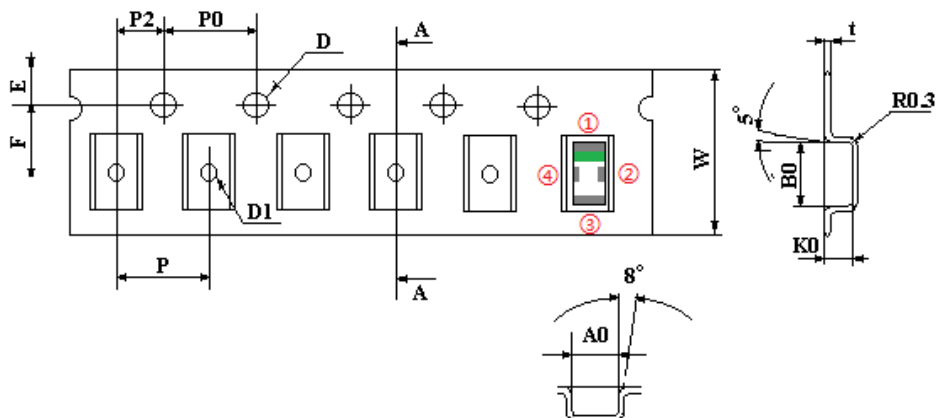
### 3、手工返工 Reworking with soldering iron

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°C, 1 minute
尖端温度 Tip temperature	350°C 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

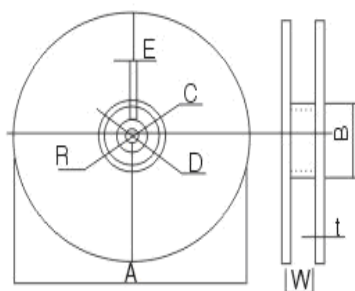
### ① 编带尺寸 Dimensions of Tape:



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



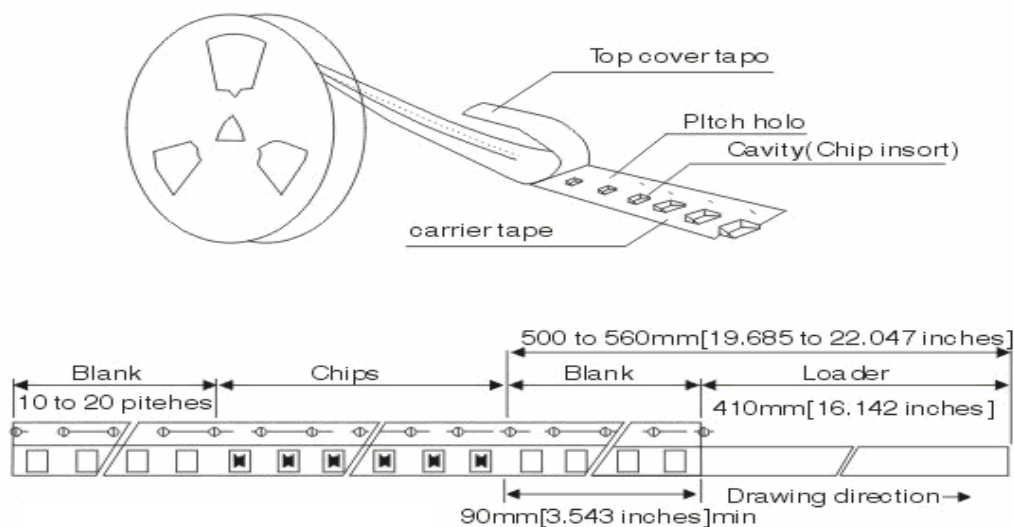
Reel material: PS (Polystyrene)

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:

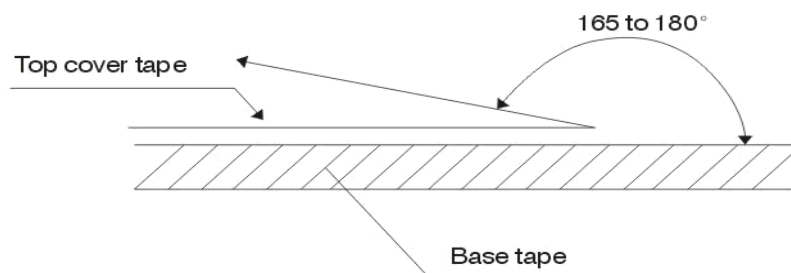
载带 Carrier tape	10N or more (1kgf or more)
上盖带 Cover tape	5N or more (1kgf or more)

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