

SUNLEI



FOR APPROVAL
樣品承認書

客戶名稱
CUSTOMER

產品名稱
PRODUCT

COMMON MODE CHOKE

產品型號
PART NO.

SMCM1513F-SERIES-PF

客戶型號
PART NO.

承認印 APPROVED BY

發行單位 ISSUE BY



昕磊科技股份有限公司

日期

DATE

2025/01/06

Office:

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Factory:

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RECORD OF REVISION

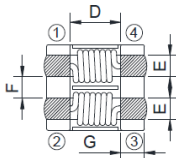
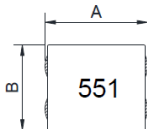
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SPECIFICATION FOR APPROVAL

CUSTOMER:		PART NO.:	SMCM1513F-SERIES-PF
DESCRIPTION:	COMMON MODE CHOKE	CUSTOMER P/N:	

1.CONFIGURATION DIMENSIONS(UNIT:mm)

100% Lead Free



MARKING: 印白字或激光打标

A 15.3 ±0.5

B 13.0 ±0.5

C 6.5 MAX

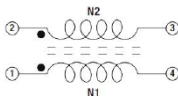
D 9.0±0.4

E 3.2±0.3

F 3.0 ±0.4

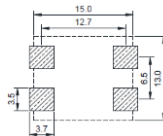
G 3.0 ±0.3

2.SCHEMATIC



Reference land pattern (mm)

参考基板尺寸



3.ELECTRICAL CHARACTERISTICS

P/N	Z（Ω）		DCR （N1=N2） （mΩ）	Rated	IR	Rated	Inductance （μH） ± 50%
	at 100MHZ/0.1V			Current		Voltage	
	Min	Typ	Max	（A）Max	（MΩ）Min	（V）Max	
SMCM1513F-101-PF	100	200	3.0	13.0	10	80	1.1
SMCM1513F-301-PF	180	300	4.0	13.0	10	80	2.0
SMCM1513F-501-PF	400	500	5.0	12.0	10	80	3.2
SMCM1513F-551-PF	450	550	5.0	12.0	10	80	3.2
SMCM1513F-701-PF	500	700	6.0	10.0	10	80	4.7
SMCM1513F-102-PF	800	1000	8.0	10.0	10	80	6.3
SMCM1513F-152-PF	1300	1500	10.0	10.0	10	80	8.3
SMCM1513F-222-PF	1700	2200	14.0	8.0	10	80	12.8
SMCM1513F-302-PF	2500	3000	18.0	5.0	10	80	18.0

REMARK:

1. 平贴度为0.10mmMax.
2. Operating Temperature: -40°C to +125°C (Temperature rise included)
3. Storage condition: Temperature 5 to 40°C, RH≤70%.



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APPROVED	CHECKED	DRAWN
Andy	Aiji	Yan
2025/03/26	2025/03/26	2025/03/26

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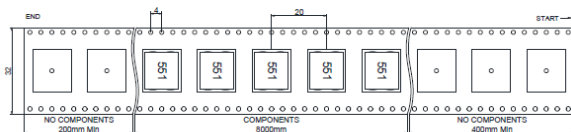
材料清单/MATERIAL LIST

NO.	ITEM	DESCRIPTION	SUPPLIER
1	CORE	FERRITE	SINCORES OR EQ
2	WIRE	2UEW-H	PACIFIC OR EQ
3	COVER	LCP E4008	LIANGCHENG OR EQ
4	ADHESIVE	FH-5890	SHENMAO OR EQ
5	TNK	Sn100%	QIHU OR EQ
6	INK	白色	BON MARK

编带规格/TAPING SPECIFICATIONS

(1).Tape Direction (mm)

编带方向



(2).Cover Tape Peel Off Condition

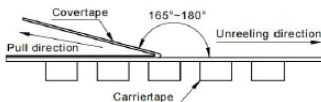
盖带剥离条件

■ Cover tape peel force shall be 10g to 130g.

盖带剥离力度为 10~130 克

■ Reference peel speed 300±10mm/min.

参考剥离速度为 300±10mm/分钟



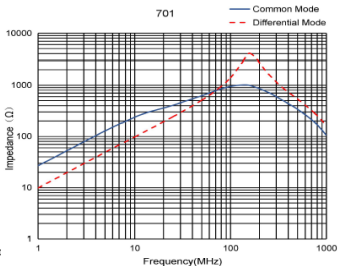
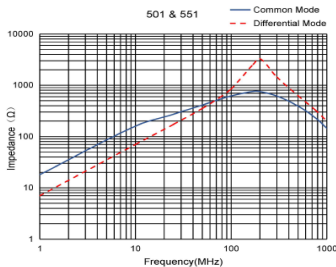
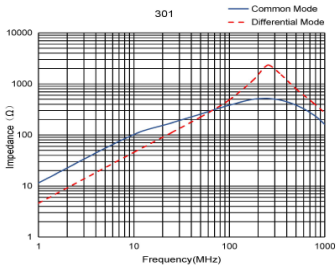
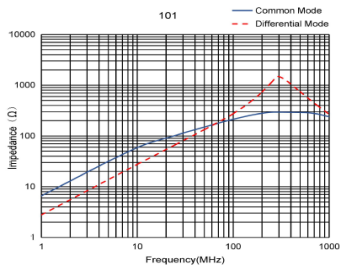
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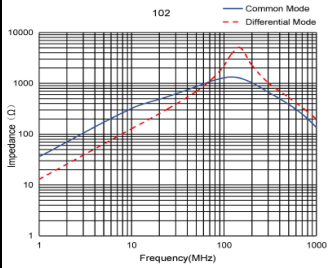
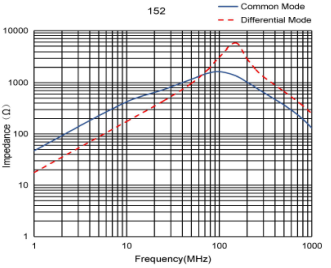
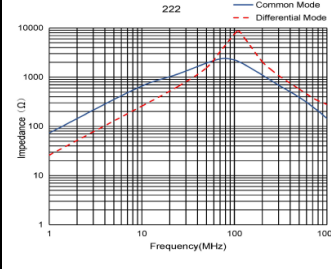
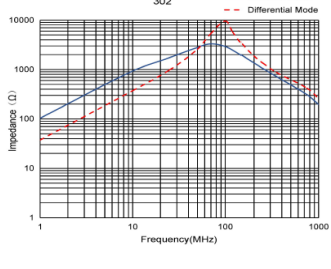
Impedance vs Frequency Curve



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102  152  222  302 				
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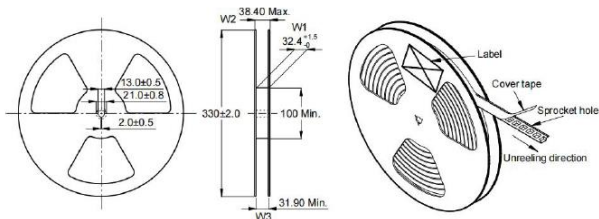
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包装方式/PACKING LIST

(3). Reel Dimensions (mm)

卷盘尺寸(mm)



(4). Carton Dimensions and Packing Quantity

包装箱尺寸和包装数量

■ Inner Carton: 340x340x70mm

内包装盒

■ Out Carton: 360x360x240mm

外包装箱

Product Series	Quantity / Reel	Inner Carton Quantity	Out Carton Quantity
SMCM1513F	400pcs	(400x2) = 800pcs	(10800x3) = 2400pcs



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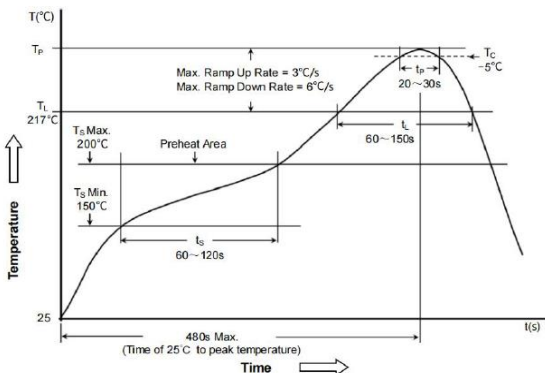
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Soldering Specification

焊接规格

(1).Reflow Profile for SMT Components

SMT 焊锡温度曲线



(2).Classification of Peak Package Body Temperature (Tp)

封装体峰值温度 (Tp) 分类

	Package Thickness 封装厚度	Package Volume 封装体积		
		<350 mm ³	350~2000 mm ³	>2000 mm ³
PB-Free Assembly 无铅装配	<1.6mm	260°C	260°C	260°C
	1.6~2.5mm	260°C	250°C	245°C
	≥2.5mm	250°C	245°C	245°C

■ Reflow is referred to standard IPC/JEDEC J-STD-020D.

回流焊参照标准 IPC/JEDEC J-STD-020D.