



深圳市顺翔诺电子有限公司

SHENZHEN SHUNXIANGNUO ELECTRONICS CO.,LTD.



产品承认书  
SPECIFICATION FOR APPROVAL

客户名称 <i>CUSTOMER NAME.</i>	-----
产品类型 <i>PRODUCT TYPE</i>	贴片功率电感
客户料号 <i>CUSTOMER P/N</i>	4520
顺翔诺料号 <i>SXN P/N</i>	SMCM4520 SERIES
文件编号 <i>FILE NO.</i>	SP-18121101

客户承认/ <i>CUSTOMER ACCEPTED</i>		
承认 <i>APPROVED</i>	确认 <i>CHECKED</i>	承办 <i>DESIGN</i>
批注/ <i>REMARK</i>		

批准 <i>APPROVED</i>	确认 <i>CHECKED</i>	作成 <i>DESIGN</i>
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承认书/SPECIFICATION FOR APPROVAL

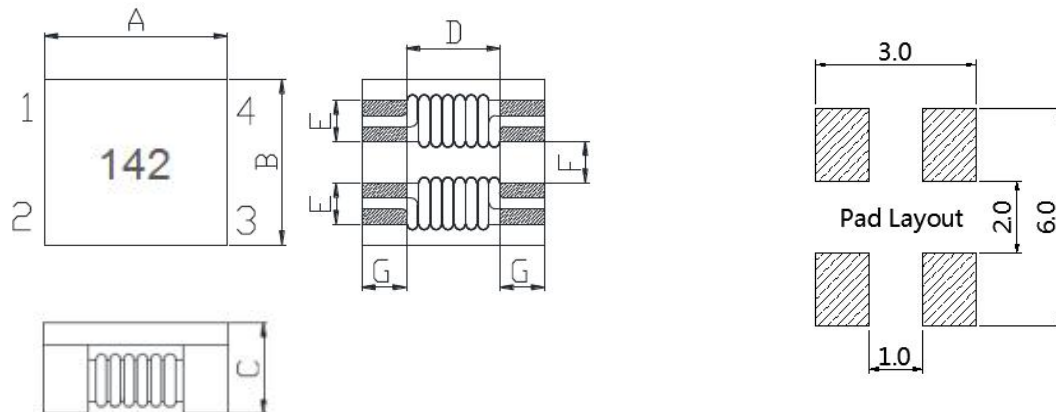
客户名称 CUSTOMER	-----	客户品名 CUSTOMER P/N	4520	版别 REV.	A
产品类型 PRODUCT TYPE	贴片功率电感	顺翔诺品名 SXN P/N	SMCM4520 SERIES	文件编号 FILE NO.	SP-18121101

修改记录/MODIFY RECORDS

版别 REV.	变更编号 ECN NO.	修改内容 MODIFY CONTENT	拟制 DRAWING	审核 CHECKED	批准 APPROVED
A		新发行			

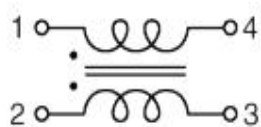
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一.尺寸图/DIMENSION (单位/UNIT : mm)



ITEM	A	B	C	D	E	F	G			
DIM	4.7	4.5	2.0	2.70	0.8	1.25	1.0			
TOLE	±0.5	±0.5	Max	Typ	Typ	Typ	Typ			

二.电路图/SCHEMATIC



三.注意事项/NOTE :

- 1.产品印黑字
- 2.崩缺面积直径小于0.3mm为允收

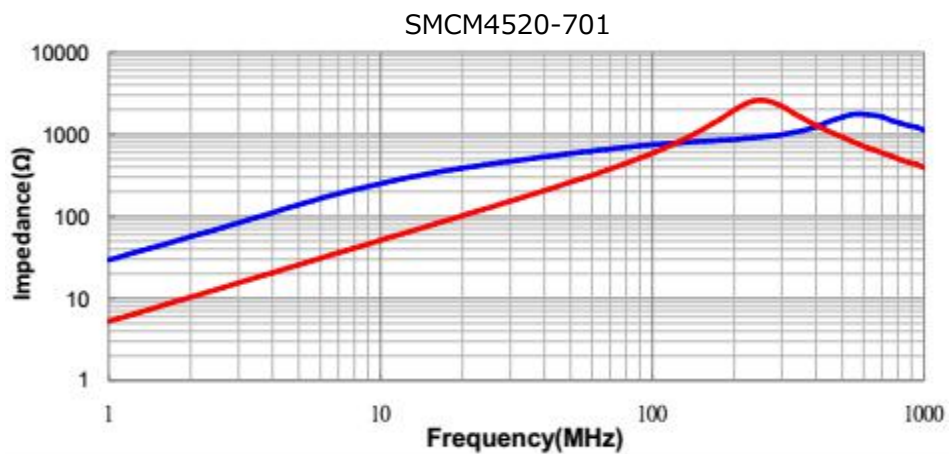
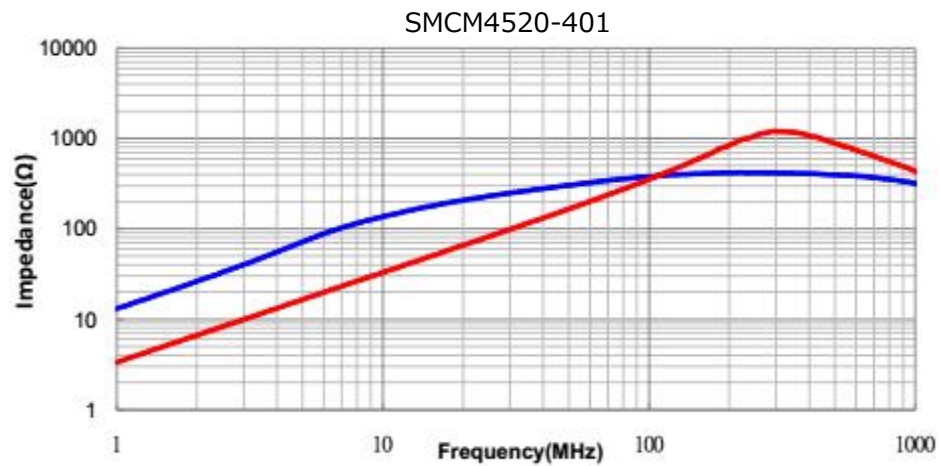
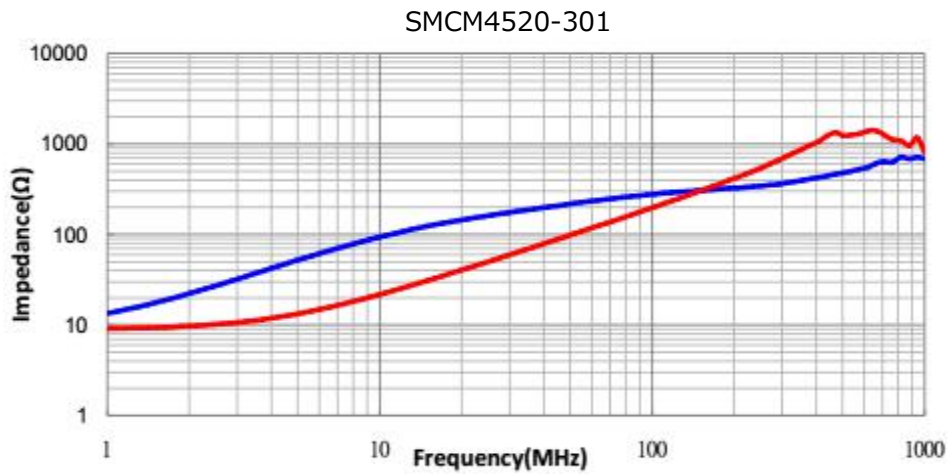
四.电气特性/ELECTRICAL CHARACTERISTIC

Part Number	Common mode Impedance (Ω @100MHz)		DCR (mΩ) max.	IDC (A)max.	Rated Volt. (Vdc)max.	IR (Ω) min.	MARK
	Min	Typ					
SMCM4520-900T	60 Min	90 Typ	35	2.0	50	10M	900
SMCM4520-151T	90 Min	150 Typ	40	1.9	50	10M	151
SMCM4520-231T	180 Min	230 Typ	45	1.8	50	10M	231
SMCM4520-301T	200 Min	300 Typ	45	1.7	50	10M	301
SMCM4520-401T	300 Min	420 Typ	50	1.5	50	10M	401
SMCM4520-701T	500 Min	700 Typ	59	1.4	50	10M	701
SMCM4520-901T	650 Min	900 Typ	68	1.3	50	10M	901
SMCM4520-102T	800 Min	1000 Typ	68	1.3	50	10M	102
SMCM4520-122T	1000 Min	1200 Typ	74	1.2	50	10M	122
SMCM4520-142T	1200 Min	1400 Typ	81	1.2	50	10M	142

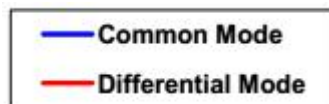
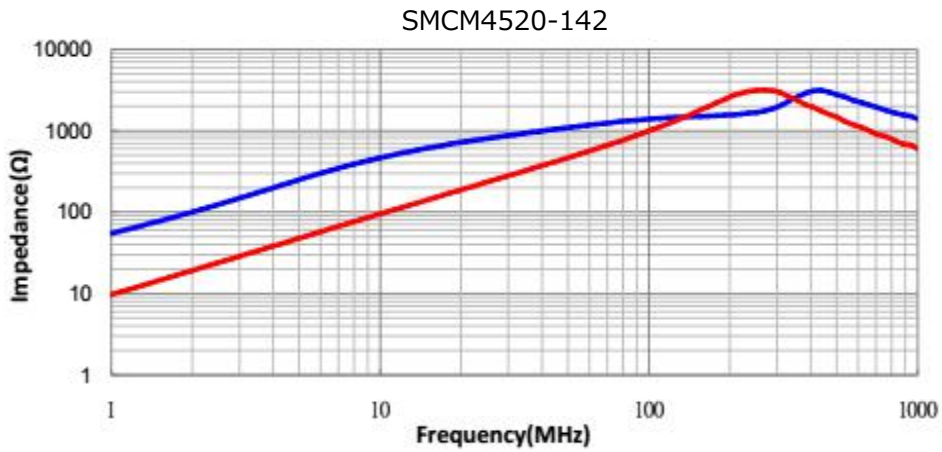
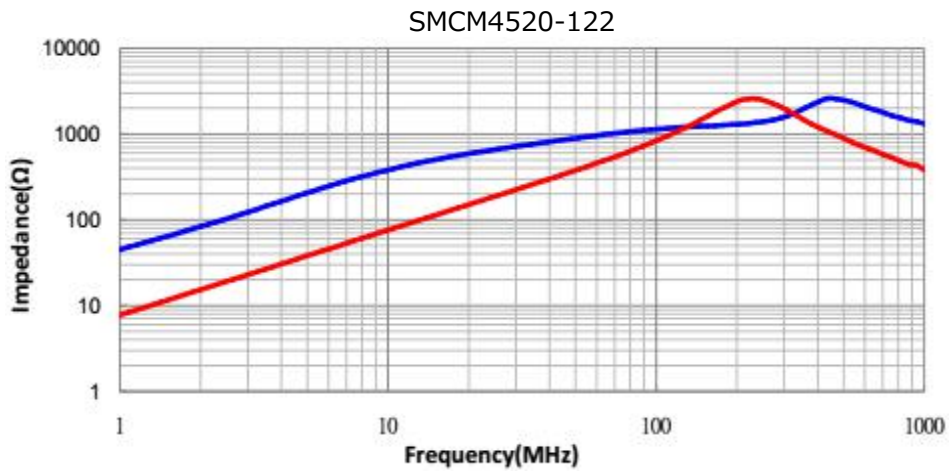
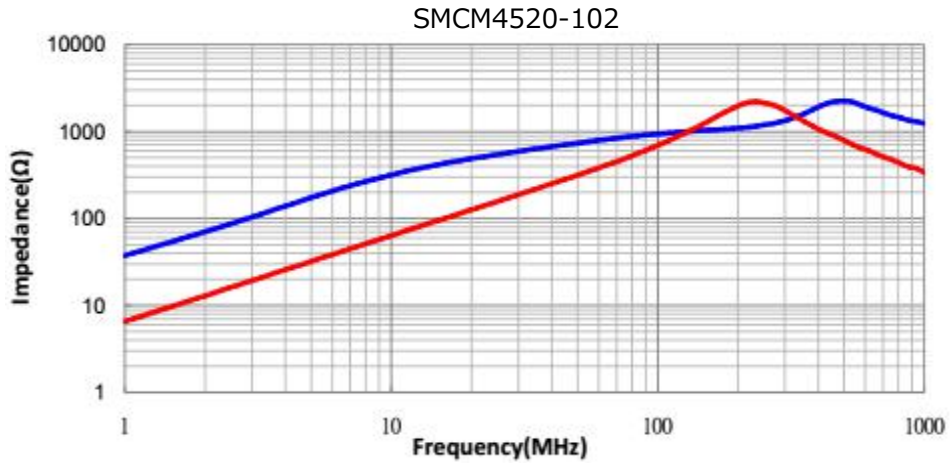
- (1).Rated Current: Temp.rise 40°C Typ
- (2).Operating Temperature: -40°C up to +125°C
- (3).Storage Temperature: -20°C up to +40°C, 75% RH max.

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五.特征曲线/CHARACTERISTICS(REFERENCE)



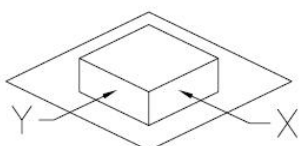
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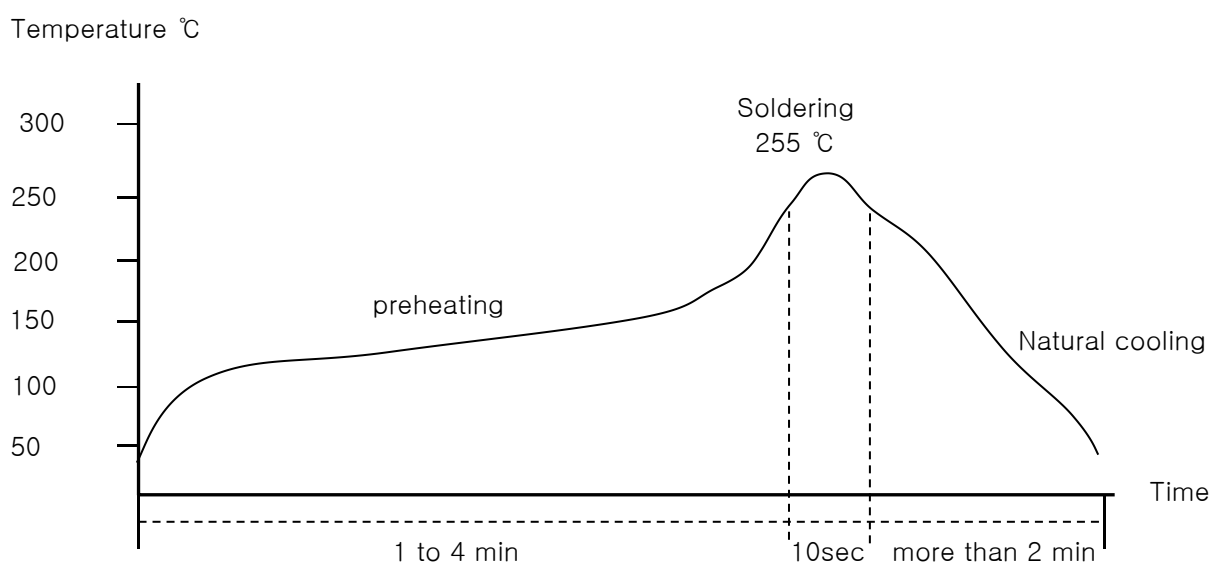
六.可靠性测试/RELIABILITY TESTING

Operating Temperature	- 40 to +125 °C ( Contain Heating coil )
Appearance Inspection	No external defects by visual inspection
Terminal Strength	After soldering , between copper plaet and terminals of coils , push in two directions of X , Y with standing 10N(1.02kg) for10+/-2 sec. Terminal should not peel off. ( Refer to figure at right )
Heat endurance of reflow soldering	Refer to figure
Insulating resistance	Over 100 MΩ at 100V D.C . between wire and core
Dielectric Strength	Apply at 0.5KV 3mA for 1 minute between wire and core
Temperature characteristics	Inductance coefficient ( 0~2,000 ) × 10 / °C ( - 40~ + 125 °C )
Humidity characteristics	Inductance deviation within ± 10% , after 96 hours in 90~95% relative humidity at 40 ± 2 °C and 1 hours drying under normal condition



A test is made under the above mentioned condition , and it is kept for 2 hours in the normal

IR Reflow profile



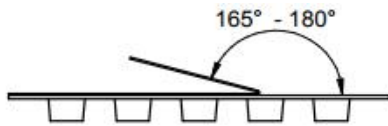
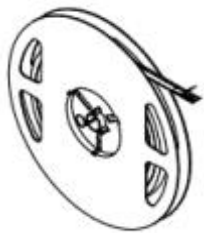
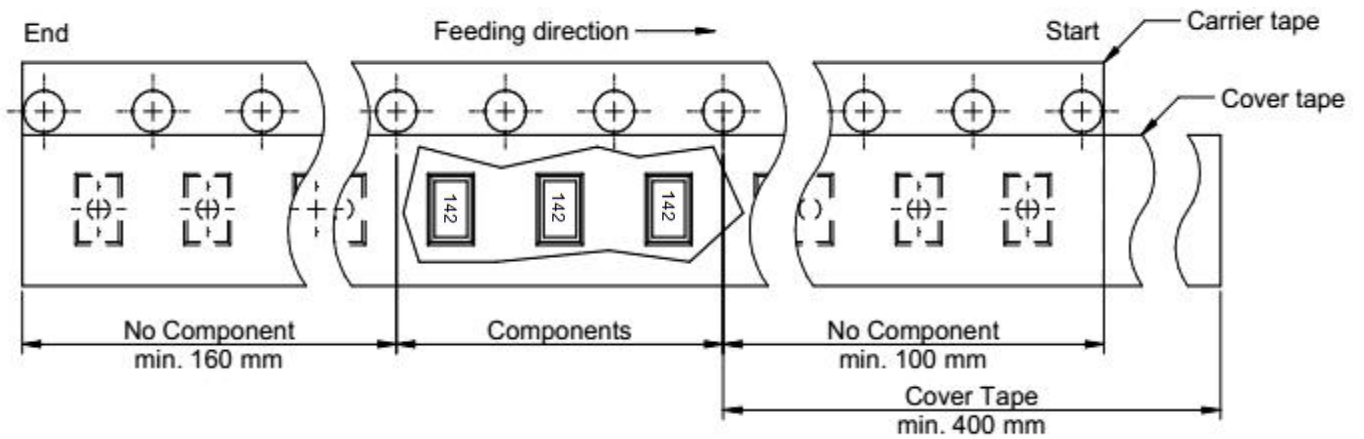
Temperature and humidity . After that , no mechanical and electrical defect should be found .

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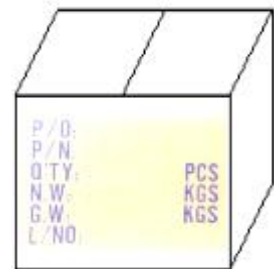
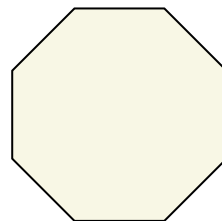
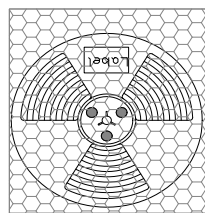
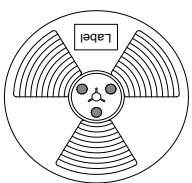
七.材料清单/MATERIAL LIST

NO.	ITEM	DESCRIPTION
1	CORE	FERRITE
2	WIRE	P180 G1
3	COVER	MYLAR
4	TIN	107H
5	INK	BLACK

八.包装规格/PACKING SPECIFICATIONS



Tape width	Distance	Pull-of force
12 mm	8 mm	10~120g



轮盘：7(直径178mm)  
数量：1000PCS/盘

PE袋  
数量：4000PCS/袋

内盒  
数量：4000PCS/盒

外箱，数量：40000PCS/箱  
不足整箱用内盒或填充物装满

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