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# APPROVAL SHEET

CUSTOMER : \_\_\_\_\_

ITEM : SMD Metal Molding Inductor

PART NAME : NSPC1265-220uH

SPEC : NSPC1265-221M

APPROVED	REFEERENCE

( Date : 2025-12-23 )

TESTED	CHECKED BY	APPROVED BY



**NAMSUN ELECTRONICS CO.,LTD**



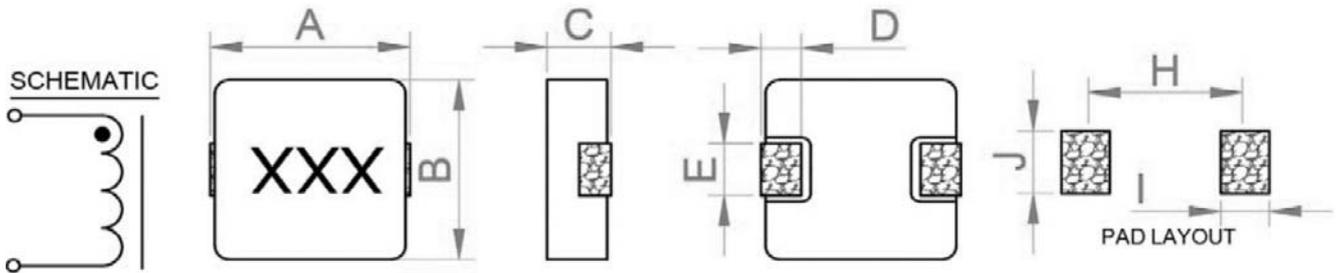
Na-3506, CHUNG ANG CIRCULATION COMPLEX 15  
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PART NAME		DESCRIPTION	NSPC1265-221M

2. DIMENSION (Unit:mm)



MARKING : 221

A	B	C	D	E	H	I	J
13.5 ± 0.5	12.7 ± 0.5	7.0 MAX	2.5 ± 0.7	3.5 ± 0.5	10.5 REF	4.0 REF	5.5 REF

3. ELECTRICAL CHARACTERISTICS

Test Item	Specifications	Test Conditions	Typ.	Test Instrument
L	220.0uH ± 20%	100kHz 0.25V	208.8uH	TH2830
L+2.0A	Drop 30% TYP	100kHz 0.25V	160.9uH	ZX7575B+TH1773
DCR	350.0mΩ MAX		295mΩ	TH2830
ISAT	2.2A TYP			ZX7575B+TH1773
IRMS	1.7A TYP			ZX7575B+TH1773
Ope.Temp.	-40 ~ 125°C			
Stor.Temp.	-20 ~ 65°C			

AT 25°C±5°C / RH 65% unless otherwise specified.

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#### 4. RELIABILITY DATA

UNLESS OTHERWISE SPECIFIED, THE STANDARD RANGE OF ATMOSPHERIC CONDITIONS FOR MEASUREMENTS AND TESTS ARE AS FOLLOWS:

AMBIENT TEMPERATURE: 15°C ~ 35°C.

RELATIVE HUMIDITY: 25% ~ 85%.

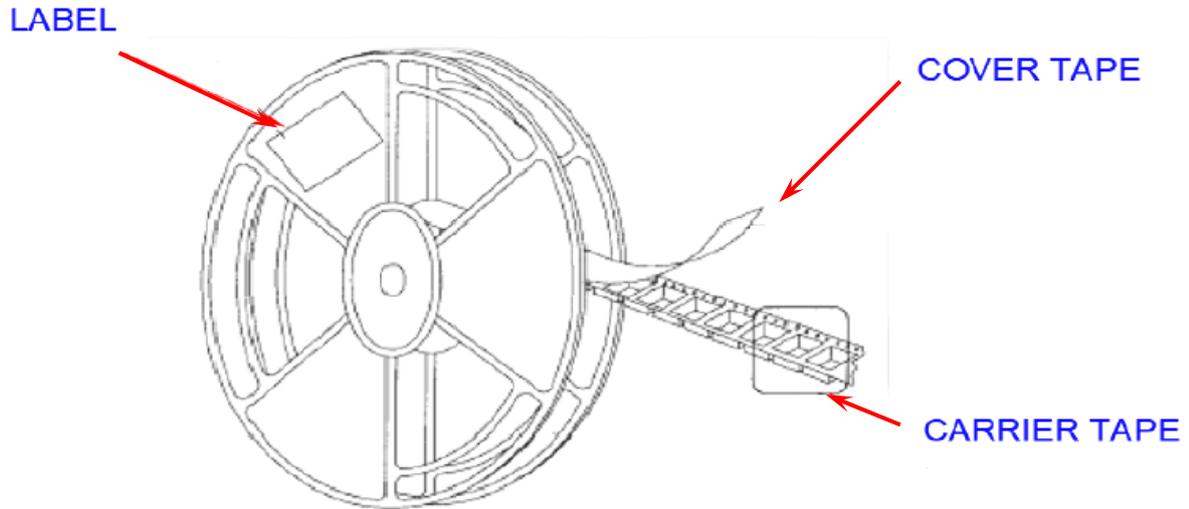
AIR PRESSURE: 86kPa ~ 106kPa.

No	ITEM	TEST METHOD	REQUIREMENTS
1	Lead terminal strength	A static pulling force of 5N in a direction parallel to the lead terminals for 60±5 seconds.	No terminal breakage or loosening.
2	Resistance to soldering heat test	Fix the samples on a 1.6mm thickness PCB, then dip the sample leads into a soldering bath of 270±5°C up to the PCB for 5±1 seconds.	No significant abnormality in appearance. Deviation relative to initial value: L: Within ±10%
3	Solder ability test	Immerse the terminal in flux for 5 seconds. Then dip the terminal into a soldering bath of 245±5°C for 2± 0.5 seconds.	At least 90% of terminal electrode is covered by new solder.
4	Humidity test	Temperature : 40°C±2°C Humidity : 90% ~ 95%RH Duration : 96±4 Hours	No significant abnormality in appearance. Deviation relative to initial value: L: Within ±10%
5	High temperature storage test	Temperature : 85°C±2°C Duration : 96±4 Hours	
6	Low temperature storage test	Temperature : -25°C±2°C Duration : 96±4 Hours	
7	Thermal shock test	First -25±5°C for 30±3 minutes , last 85±5°C 30±3 minutes as 1 cycles. Go through 10 cycles.	

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**5. PACKING SPECIFICATION**



ITEM	REEL(PCS)	INEER BOX(PCS)	OUT BOX(PCS)
NSPC1265-221M	350	700	1,400

**INNER BOX : 340L\*340W\*70H(PUT IN 2 REEL)**

**OUT BOX : 360L\*360W\*170H(PUT IN 2 INNER BOX)**

\*OUT BOX SPECIFICATIONS

