

PAGE	
REV. NO	

APPROVAL SHEET

CUSTOMER :

ITEM : SMD POWER INDUCTOR

PART NAME : NSPC4020-3.3uH, 4.7uH, 6.8uH

SPEC : NSPC4020-SERIES

APPROVED	REFEERENCE

(Date : 2024-01-23)

TESTED	CHECKED BY	APPROVED BY



NAMSUN ELECTRONICS CO.,LTD



Na-3506, CHUNG ANG CIRCULATION COMPLEX 15

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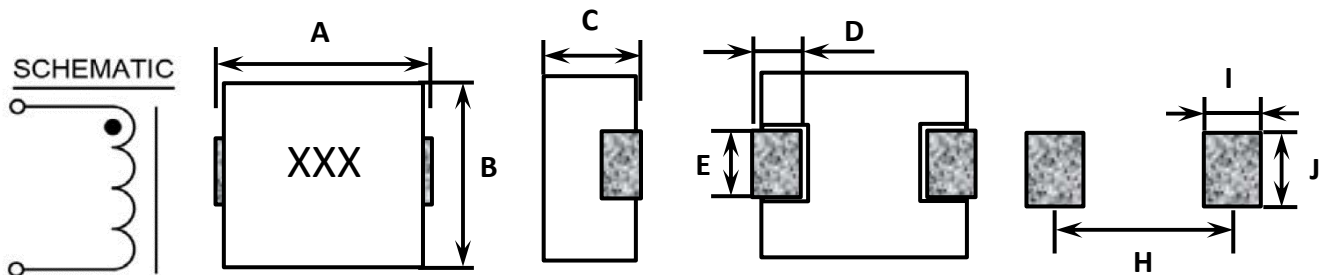
CUSTOMER :

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CUSTOMER :

SPECIFICATION		SHEET NO.	2/4
PART NAME	NSPC4020	DESCRIPTION	NSPC4020-3R3M NSPC4020-4R7M NSPC4020-6R8M

2. DIMENSION (Unit:mm)



A	B	C	D	E	H	I	J
4.6 ± 0.25	4.1 ± 0.35	2.0 MAX	0.76 ± 0.3	1.5 ± 0.3	3.7	1.25	2.5

3. ELECTRICAL CHARACTERISTICS

PART NUMBER	INDUCTANCE (μ H)	DCR (m Ω) @25 $^{\circ}$ C		Saturation Current DC Amps. Isat (A)	Heat Rating Current DC Amps. Irms (A)
		Typical	Maximum		
NSPC4020-3R3M	3.3 $\pm$ 20%	74.0	87.0	4.0	2.5
NSPC4020-4R7M	4.7 $\pm$ 20%	100.0	126.0	3.0	2.2
NSPC4020-6R8M	6.8 $\pm$ 20%	162.0	178.0	2.5	2.0

Remark: ● All test data is reference to 25 $^{\circ}$ C ambient.

- Test Condition : 100kHz , 1Vrms
- Isat : DC current (A) that will cause L0 to drop approximately 30% Typ.
- Irms : DC current (A) that will cause an approximate Δ T of 40 $^{\circ}$ C
- Operat between temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C(Including self - temperature rise)
- Absolute maximum voltage: DC 75V



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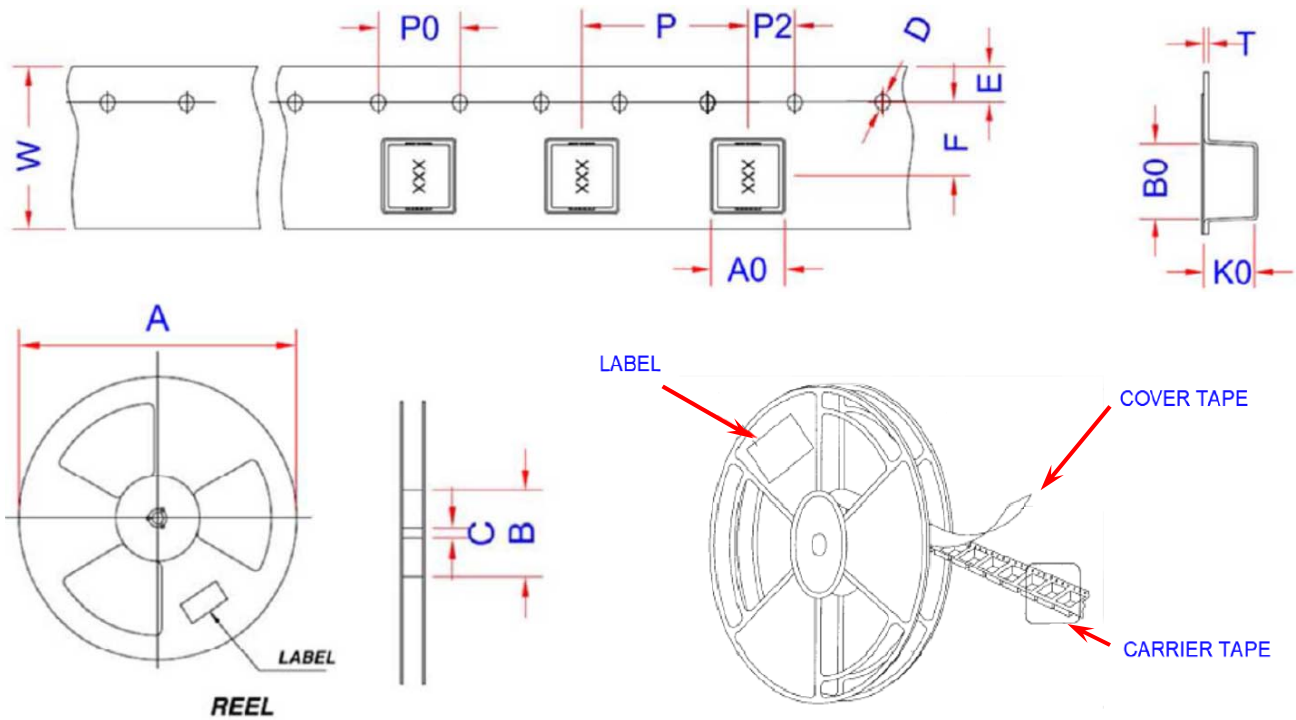
CUSTOMER :

SPECIFICATION		SHEET NO.	3/4
PART NAME	NSPC4020	DESCRIPTION	NSPC4020-3R3M NSPC4020-4R7M NSPC4020-6R8M
4. RELIABILITY DATA			
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 stroage 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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CUSTOMER :

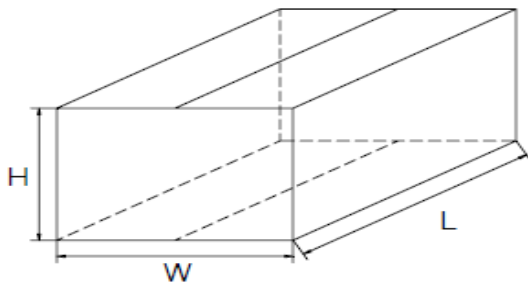
SPECIFICATION		SHEET NO.	4/4
PART NAME	NSPC4020	DESCRIPTION	NSPC4020-3R3M NSPC4020-4R7M NSPC4020-6R8M

5. PACKING SPECIFICATION



TAPE DIMENSION(mm)						REEL DIMENSION (mm)			Quantity (pcs/ reel)	Quantity (pcs/carton)
W	A0	B0	K0	D	P	A	B	C		
12.0	4.4	5.2	2.2	1.5	8.0	330	100	13	3000	18000

*OUT BOX SPECIFICATIONS



INNER BOX : 340L*340W*70H

(PUT IN 3 REEL)

OUT BOX : 360L*360W*170H

(PUT IN 2 INNER BOX)



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