

승 인	
정식승인	()
한도승인	()

SPECIFICATIONS

CUSTOMER	
ITEM	SMD INDUCTOR
MODEL NAME	NS-1050-10mH(103K)
PART No	NS1050-103M
DATE	2019-06-10

검 토	심 사	승 인
승인유효기간	승인일로부터	년

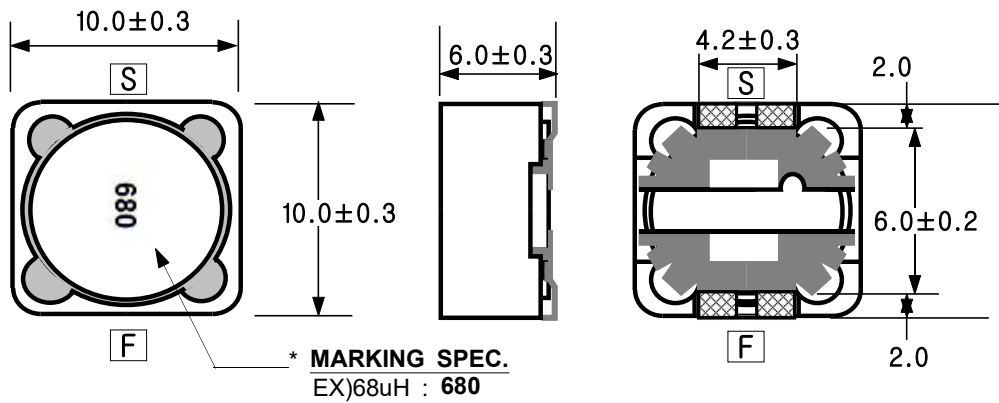
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개정이력 LIST

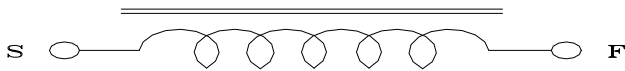
REV NO.	개정일자	개정 항목	개정내용	관련근거
0	2019-06-10	NEW	초도 발행	
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改訂 REV.	設計變更 ENG.CHANGE	日付 DATE	作成 DRAWN	檢認 APPD.
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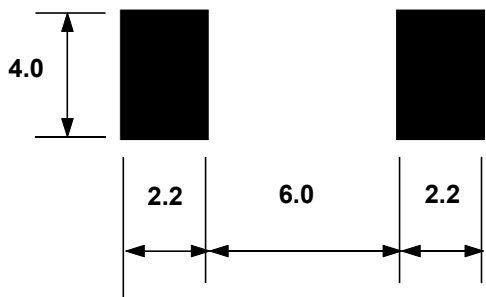
1. DIMENSION (UNIT : mm)



2. CONNECTION



3. PCB-LAND PATTERN



QUALITY & DEVELOPMENT TEAM				尺 圖	SCALE	SMD INDUCTOR for POWER LINE	
擔 當 DRAWN	說 計 DESIGNED	檢 認 CHECKED	承 認 APPROVED	/	NTS		
				DIM.	mm		
				NS1050-103M			3 / 6

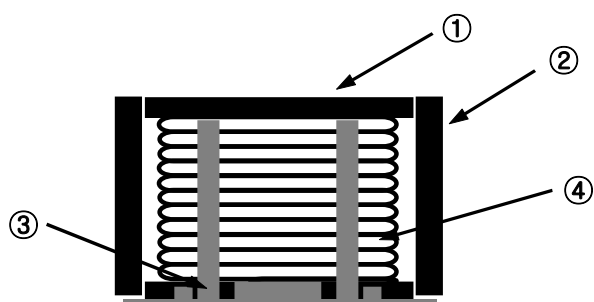
改訂 REV.	設計變更 ENG.CHANGE	日付 DATE	作成 DRAWN	檢認 APPD.
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4. ELECTRICAL PERFORMANCE

P/NO.	INDUCTANCE [$\mu\text{H} \pm 20\%$]	DC RESISTANCE [Ω MAX]	RATED CURRENT [A MAX]	MARKING
NS1050-103M	10000	32	0.1260	103

- * INDUCTANCE : HP-4284A LCR METER at 1kHz, 1V.
- * DC RESISTANCE : HIOKI 3220m Ω HI TESTER.
- * RATED CURRENT : The maximum DC value having inductance decrease within 20% and Temperature increase within 40℃ by the application of DC bias.

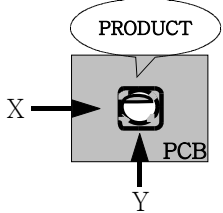
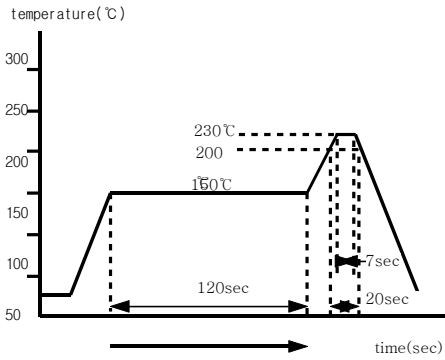
5. INTERNAL CONSTRUCTION & MATERIAL LIST



NO.	PART NAME	MATERIAL	MAKER
1	DR CORE	FERRITE	TDG Co.,LTD SCC Co.,LTD SAMWHA CORE or Equ.
2	RI CORE	FERRITE	TDG Co.,LTD SCC Co.,LTD SAMWHA CORE or Equ.
3	BASE	STEEL BASE	FORES HITECH or Equ.
4	WIRE	UEW	YU JIN CO.,LTD. WENDENG YONG HE ELECTRONICS CO.,LTD or Equ.
5	EPOXY	SK-021 SK-031F	SE KYE CHEMICAL
6	SOLDER	SOLDER BAR	DAE KIL METAL

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				DIM.	mm		
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6. RELIABILITY DATA

NO	ITEM	SPECIFICATION	TEST METHOD & CONDITION
1	Operating temperature range	-25 to +85℃	Including temperature rise due to self-generated heat.
2	Storage temperature range	-40 to +85℃	
3	Insulation resistance	100MΩ min.	100VDC for 1min. between coil & core.
4	High Temperature	Inductance change : within ±10%	85℃ 96 Hours.
5	Low Temperature		-25℃ 96 Hours.
6	Humidity		40±2℃ 90~95% 500 Hours.
7	Thermal shock		-25±3℃ 30 Minutes Room Temp. Within 5 Minutes 85±2℃ 30 Minutes : 5 cycle
8	Vibration	Inductance change : within ±5%	vibration for 2hours in each of three orientations at sweep vibration 10 to 55 to 10Hz with 1.5mm P-P amplitude .
9	Solderability	Wetting shall cover less than 75% of each terminal	Solder temperature : 260 ±5℃ Duration : 3 ±2sec.
10	Resistance to soldering heat	No mechanical defect and Inductance change : within ±5%	Solder temperature : 260 ±5℃ Duration : 10 ±2sec.
11	Terminal strength	0.5kg for 10 ±1 seconds. Terminal should not peel off	 After soldering between copper plate and terminals of x,y with standing at below conditions
12	Reflow condition	No mechanical defect and No Inductance defect	 Reflow condition

※ Measure after leave 2hours in standard condition(No 4~8).

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