

# APPROVAL SHEET

ITEM	:	SMD POWER INDUCTOR
P/NO	:	HTOP7850 series
DATE	:	2015-01-15

APPROVED	REFEERENCE

HANTER ELECTRONICS IND CO.,LTD  
JIANGNAN ZHUANG, WEISHAN TOWN WENDENG CITY  
SHANDONG, CHINA

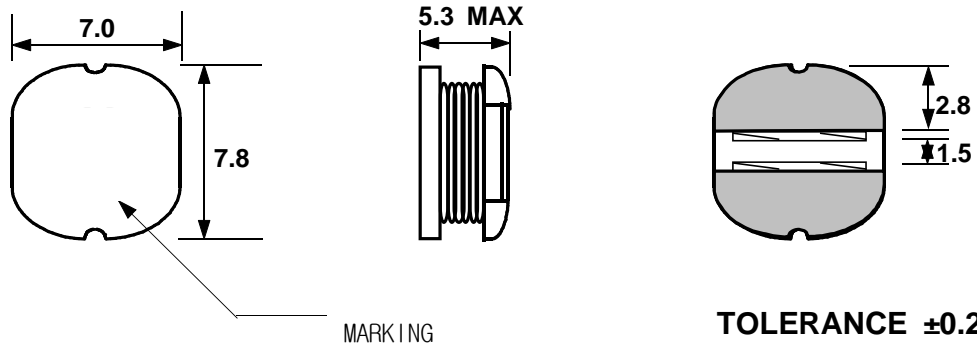
改訂 REV.	設計變更 ENG.CHANGE	日付 DATE	作成 DRAWN	檢認 APPD.
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RECORD OF REVISIONS				
REV NO.	REV DATE	REVISION CONTENTS	REASON OF REV.	MARKING METHOD
0	2015.01.15	신규		

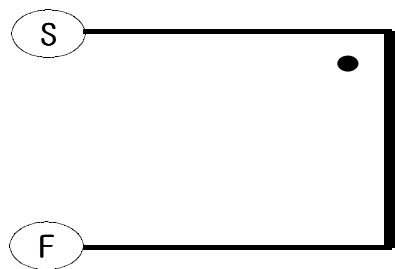
QUALITY & DEVELOPMENT TEAM				尺圖 SCALE	SMD INDUCTOR for POWER LINE
擔當 DRAWN	設計 DESIGNED	檢認 CHECKED	承認 APPROVED	/ NTS	
				DIM. mm	
HTOP7850-SERIES					1 / 6

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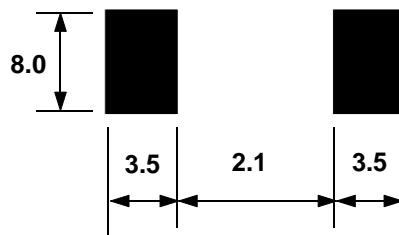
### 1. DIMENSION (UNIT : mm)



### 2. CONNECTION



### 3. PCB-LAND PATTERN



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#### 4. ELECTRICAL PERFORMANCE

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P/NO.	INDUCTANCE [ $\mu\text{H}\pm 10\%$ ]	DC RESISTANCE [ $\Omega$ MAX]	RATED CURRENT [A MAX]	MARKING
HTOP7850-1R0K	1.0	0.010	7.00	1R0
1R5K	1.5	0.020	5.00	1R5
2R2K	2.2	0.030	4.10	2R2
3R3K	3.3	0.040	3.60	3R3
4R7K	4.7	0.048	3.00	4R7
5R6K	5.6	0.055	2.85	5R6
6R8K	6.8	0.060	2.78	6R8
8R2K	8.2	0.065	2.53	8R2
100K	10	0.070	2.30	100
150K	15	0.090	1.80	150
180K	18	0.100	1.60	180
220K	22	0.110	1.50	220
330K	33	0.130	1.20	330
390K	39	0.160	1.10	390
470K	47	0.180	1.10	470
560K	56	0.240	0.94	560
680K	68	0.280	0.85	680
820K	82	0.370	0.78	820
101K	101	0.430	0.72	101
151K	151	0.640	0.58	151
181K	181	0.710	0.51	181
221K	221	0.960	0.49	221
331K	331	1.260	0.40	331
391K	391	1.770	0.36	391
471K	471	1.960	0.34	471
561K	561	2.450	0.30	561
681K	681	2.680	0.25	681
821K	821	2.810	0.23	821
102K	102	3.200	0.20	102

QUALITY & DEVELOPMENT TEAM

尺圖 SCALE

擔當  
DRAWN

設計  
DESIGNED

檢認  
CHECKED

承認  
APPROVED

/ NTS

SMD INDUCTOR  
for POWER LINE



DIM. mm

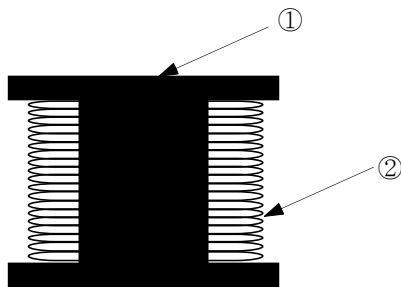
HTOP7850-SERIES

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- \* INDUCTANCE : HP-4284A LCR METER at 100kHz, 0.25V.
- \* DC RESISTANCE : HIOKI 3220mΩHI TESTER.
- \* RATED CURRENT : The maximum DC value having inductance decrease within 10% and Temperature increase within 40℃ by the application of DC bias.

### 5. INTERNAL CONSTRUCTION & MATERIAL LIST

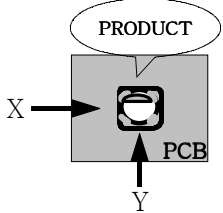
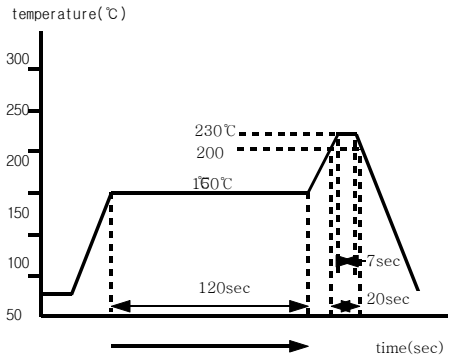


NO.	PART NAME	MATERIAL
1	CORE	PASTE, FERRITE
2	WIRE	UEW

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## 6. RELIABILITY DATA

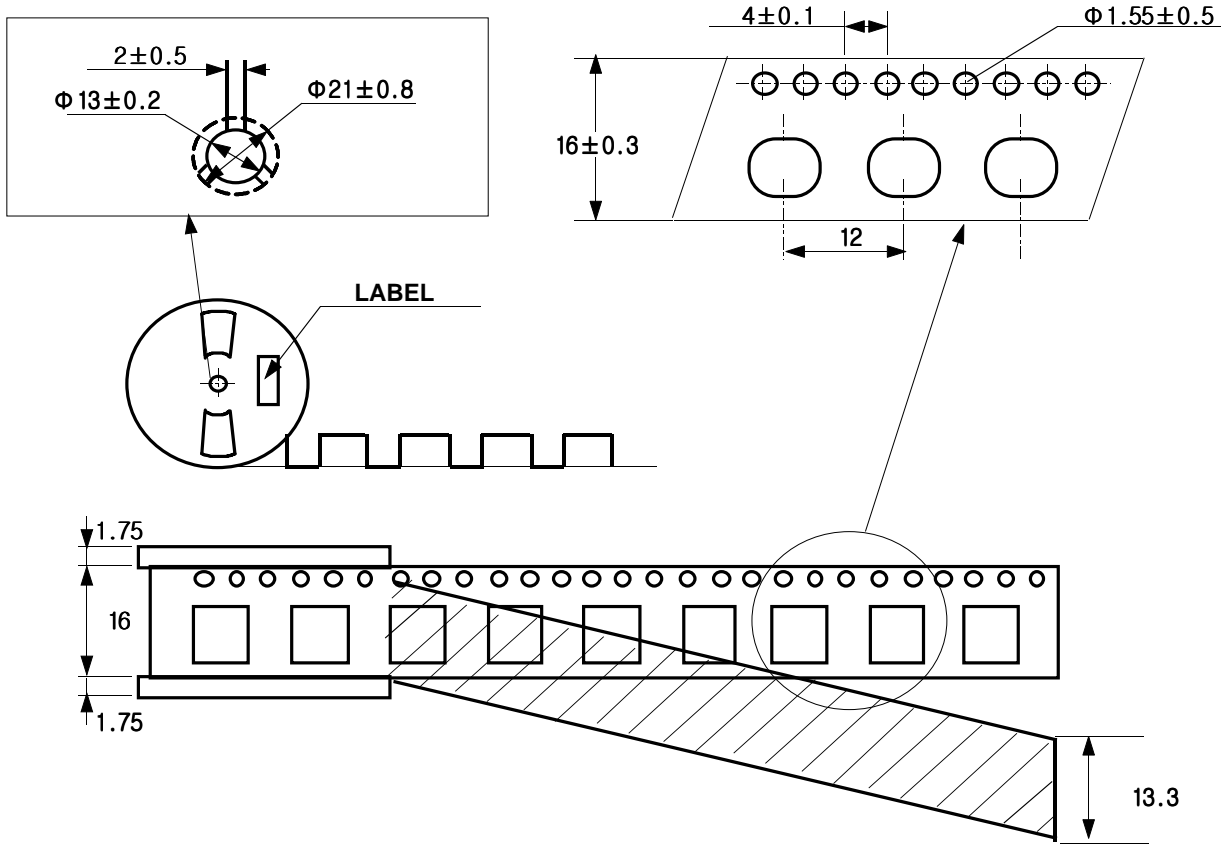
NO	ITEM	SPECIFICATION	TEST METHOD & CONDITION
1	Operating temperature range	-25 to +85℃	Including temperature rise due to self-generated heat.
2	Storage temperature range	-40 to +85℃	
3	Insulation resistance	100MΩ min.	100VDC for 1min. between coil & core.
4	High Temperature	Inductance change : within ±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%	Soler temperature : 260 ±5℃ Duration : 10 ±2sec.
11	Terminal strength	0.5kg for 10 ±1 seconds. Terminal should not peel off	 <p>After soldering between copper plate and terminals of x,y with standing at below conditions</p>
12	Reflow condition	No mechanical defect and No Inductance defect	 <p>Reflow condition</p>

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

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### 7. PACKING SPEC.



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