

APPROVAL SHEET

ITEM : SMD POWER INDUCTOR

P/NO : HTOP1054 SERIES


DATE : 2011.03.29.

APPROVED	REFEERENCE

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

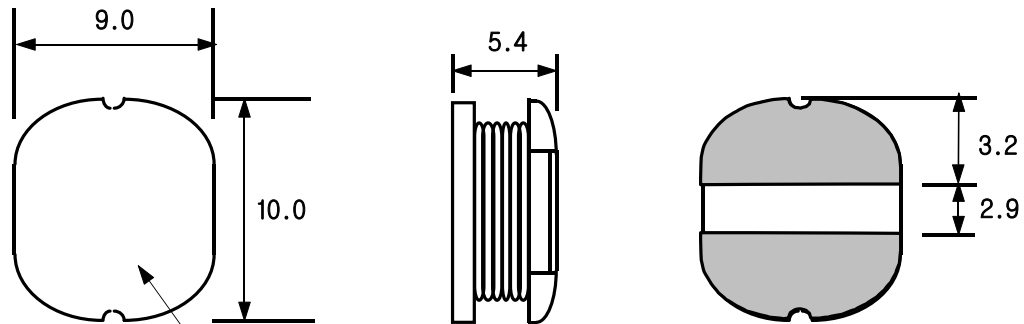
改訂 REV.	設計變更 ENG.CHANGE	日付 DATE	作成 DRAWN	檢認 APPD.
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RECORD OF REVISIONS				
REV NO.	REV DATE	REVISION CONTENTS	REASON OF REV.	MARKING METHOD
0	2011.05.27	신규		

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	
				HTOP1054-SERIES	
				1 / 6	

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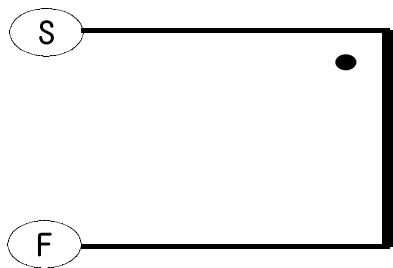
1. DIMENSION (UNIT : mm)



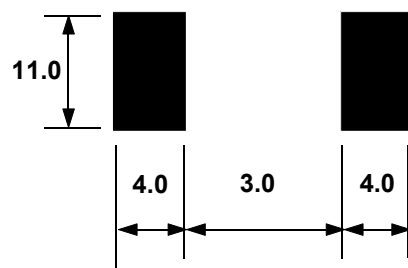
* MARKING SPEC.
EX) 100uH : 101

TOLERANCE ± 0.2

2. CONNECTION



3. PCB-LAND PATTERN (RECOMMENDATION)





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				HTOP1054-SERIES	2 / 6

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4. ELECTRICAL PERFORMANCE

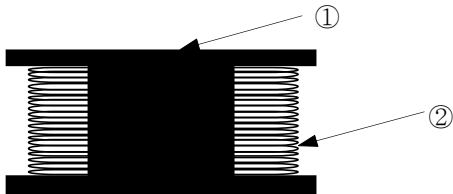
P/NO.	INDUCTANCE [uH ± 20%]	DC RESISTANCE [Ω MAX]	RATED CURRENT [A MAX]	MARKING
HTOP1054-1R0M	1	0.010	5.96	1R0
HTOP1054-1R5M	1.5	0.015	5.00	1R5
HTOP1054-2R2M	2.2	0.024	3.20	2R2
HTOP1054-3R3M	3.3	0.030	3.00	3R3
HTOP1054-4R7M	4.7	0.038	2.80	4R7
HTOP1054-5R6M	5.6	0.042	2.72	5R6
HTOP1054-6R8M	6.8	0.050	2.68	6R8
HTOP1054-8R2M	8.2	0.055	2.65	8R2
HTOP1054-100M	10	0.060	2.60	100
HTOP1054-150M	15	0.080	2.27	150
HTOP1054-220M	22	0.100	1.96	220
HTOP1054-330M	33	0.130	1.50	330
HTOP1054-470M	47	0.170	1.28	470
HTOP1054-680M	68	0.220	1.11	680
HTOP1054-820M	82	0.250	1.00	820
HTOP1054-101M	100	0.350	0.97	101
HTOP1054-121M	120	0.410	0.89	121
HTOP1054-151M	150	0.470	0.79	151
HTOP1054-221M	220	0.730	0.66	221
HTOP1054-270M	270	0.970	0.57	271
HTOP1054-331M	330	1.150	0.52	331
HTOP1054-390M	390	1.300	0.48	391
HTOP1054-471M	470	1.480	0.42	471
HTOP1054-681M	680	2.250	0.28	681
HTOP1054-821M	820	2.550	0.24	821
HTOP1054-102M	1000	2.900	0.20	102

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						3 / 6




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- * INDUCTANCE : HP-4284A LCR METER at 1KHz, 0.25V.
- * DC RESISTANCE : HIOKI 3220mΩHI 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

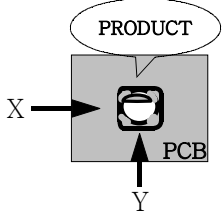
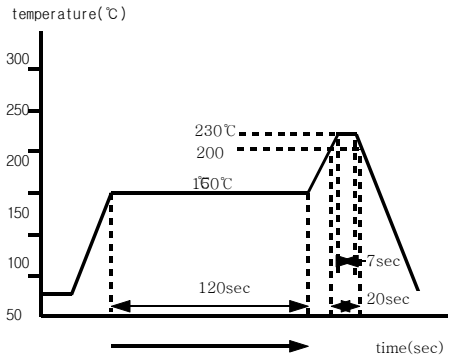


NO.	PART NAME	TYPE
1	CORE	FERRITE , PASTE TYPE
2	WIRE	UEW




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				4 / 6	

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6. RELIABILITY DATA

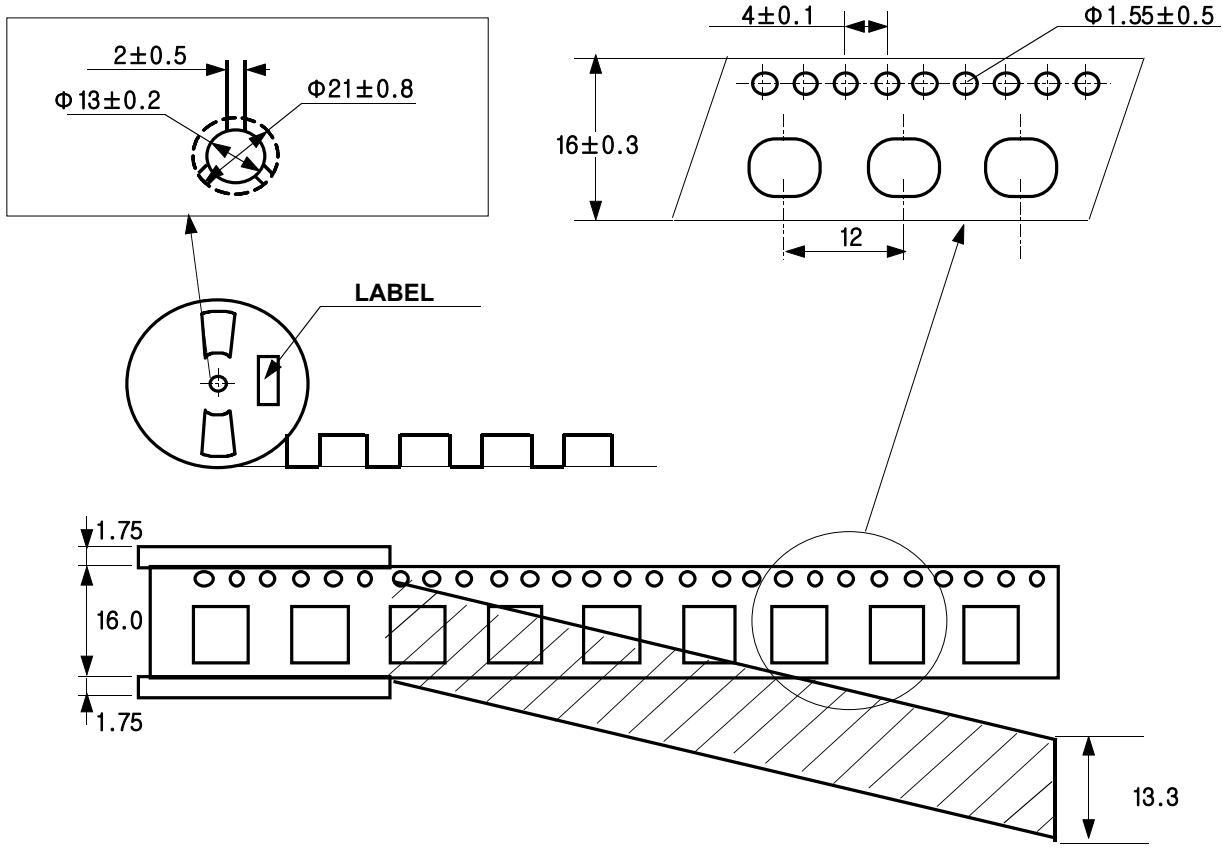
NO	ITEM	SPECIFICATION	TEST METHOD & CONDITION
1	Operating temperature range	-25 to +85℃	Including temperature rise due to self-generated heat.
2	Storage temperature range	-40 to +85℃	
3	Insulation resistance	100MΩ min.	100VDC for 1min. between coil & core.
4	High Temperature	Inductance change : within ±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).

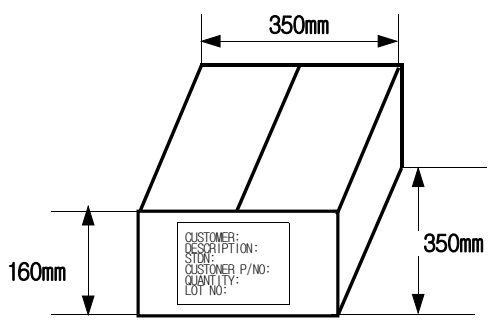
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7. PACKING SPEC.



TAPE PITCH	12mm
EMBOSE TAPE	16mm
REEL	Φ330 ±2mm
QUANTITY	1000pcs
REEL TAPE MARGIN	START : 200mm MIN FINISH : 200mm MIN
COVER TAPE	13.3mm



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