

APPROVAL SHEET




ITEM	:	SMD POWER INDUCTOR
P/NO	:	HTCB 1280 SERIES
DATE	:	2011.03.29.

APPROVED	REFEERENCE

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

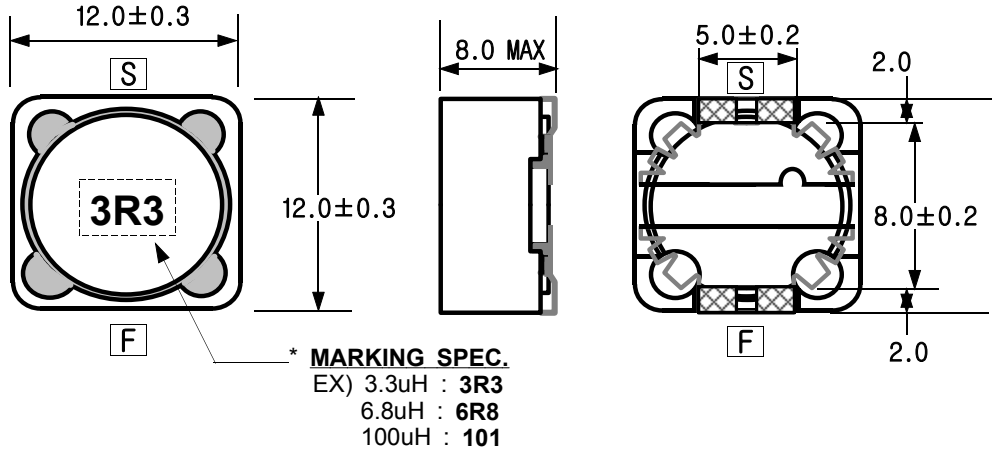
改訂 REV.	設計變更 ENG.CHANGE	日付 DATE	作成 DRAWN	檢認 APPD.
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RECORD OF REVISIONS				
REV NO.	REV DATE	REVISION CONTENTS	REASON OF REV.	MARKING METHOD
1	2011.05.27	신 규		

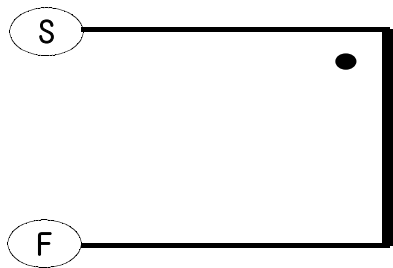
QUALITY & DEVELOPMENT TEAM				尺圖 SCALE	SMD INDUCTOR for POWER LINE
擔當 DRAWN	設計 DESIGNED	檢認 CHECKED	承認 APPROVED	/ NTS	
				DIM. mm	
				HTCB 1280-SERIES	
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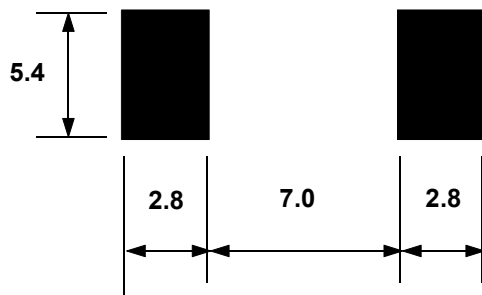
1. DIMENSION (UNIT : mm)



2. CONNECTION



3. PCB-LAND PATTERN



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4. ELECTRICAL PERFORMANCE

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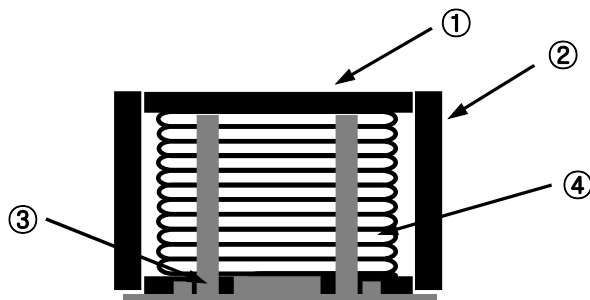
P/NO.	INDUCTANCE [uH]	DC RESISTANCE [Ω MAX]	RATED CURRENT [A MAX]	MARKING
HTCB-1280-1R2N	1.2 ± 30%	0.0070	9.80	1R2
2R4N	2.4 ± 30%	0.0115	8.00	2R4
3R5N	3.5 ± 30%	0.0135	7.50	3R5
4R7N	4.7 ± 30%	0.0158	6.80	4R7
6R1N	6.1 ± 30%	0.0176	6.60	6R1
7R6N	7.6 ± 30%	0.0200	5.90	7R6
100M	10 ± 20%	0.0216	5.40	100
120M	12 ± 20%	0.0243	4.90	120
150M	15 ± 20%	0.0270	4.50	150
180M	18 ± 20%	0.0392	3.90	180
220M	22 ± 20%	0.0432	3.60	220
270M	27 ± 20%	0.0459	3.40	270
330M	33 ± 20%	0.0648	3.00	330
390M	39 ± 20%	0.0729	2.75	390
470M	47 ± 20%	0.1000	2.50	470
560M	56 ± 20%	0.1100	2.35	560
680M	68 ± 20%	0.1400	2.10	680
820M	82 ± 20%	0.1600	1.95	820
101M	100 ± 20%	0.2200	1.70	101
121M	120 ± 20%	0.2500	1.60	121
151M	150 ± 20%	0.2800	1.42	151
181M	180 ± 20%	0.3500	1.30	181
221M	220 ± 20%	0.3900	1.16	221
271M	270 ± 20%	0.5600	1.06	271
331M	330 ± 20%	0.6400	0.95	331
391M	390 ± 20%	0.7000	0.88	391
471M	470 ± 20%	0.9800	0.79	471
561M	560 ± 20%	1.0700	0.73	561
681M	680 ± 20%	1.4600	0.67	681
821M	820 ± 20%	1.6400	0.60	821
102M	1000 ± 20%	1.8200	0.55	102

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- * INDUCTANCE : HIOKI 3531 LCR METER at 100KHz, 0.1V. (1.2uH~7.6uH)
HIOKI 3531 LCR METER at 1KHz, 0.25V. (10uH ~ 1000uH)
- * 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

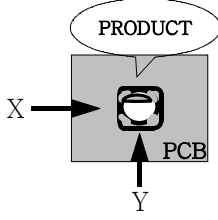
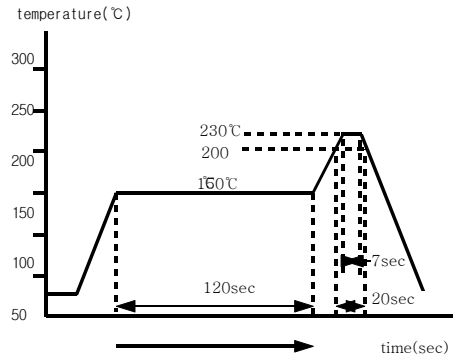


NO.	PART NAME	MATEARIAL	MAKER
1	CORE	FERRITE	TDG CO.,LTD. or eqv.
2	OP CORE	FERRITE	TDG CO.,LTD. or eqv.
3	BASE	STEEL	HWAPYUNG ELECTRONICS , or eqv.
4	WIRE	UEW or eqv.	YU JIN or eqv.




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6. RELIABILITY DATA

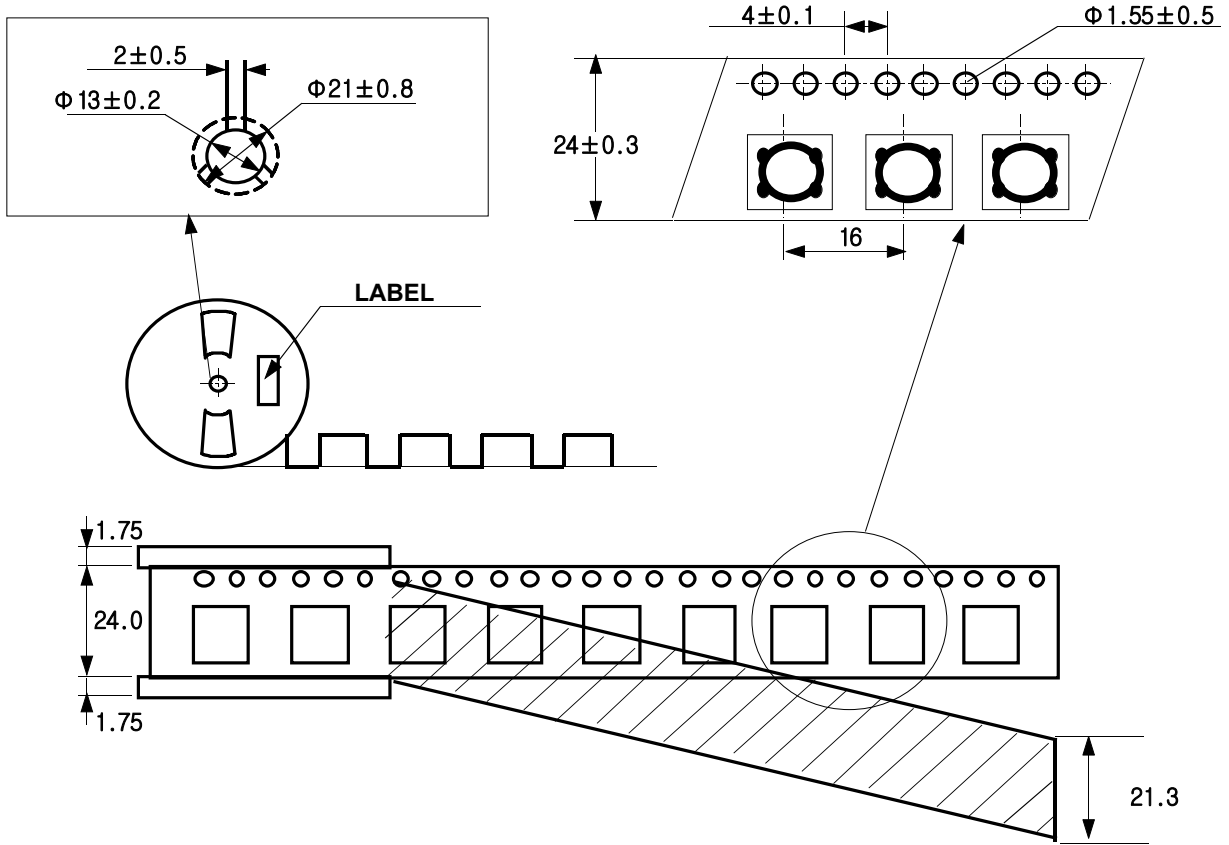
NO	ITEM	SPECIFICATION	TEST METHOD & CONDITION
1	Operating temperature range	-25 to +85℃	Including temperature rise due to self-generated heat.
2	Storage temperature range	-40 to +85℃	
3	Insulation resistance	100MΩ min.	100VDC for 1min. between coil & core.
4	High Temperature	Inductance change : within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

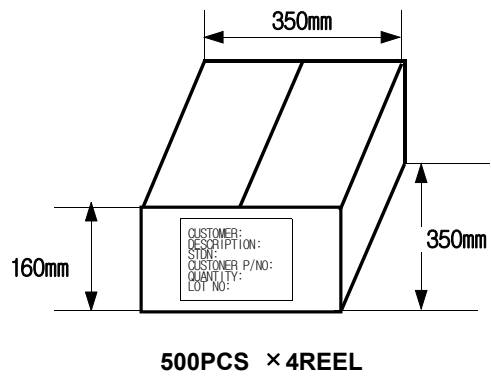
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7. PACKING SPEC.



TAPE PITCH	16mm
EMBOSE TAPE	24mm
REEL	Φ330 ±2mm
QUANTITY	500pcs
REEL TAPE MARGIN	START : 200mm MIN FINISH : 200mm MIN
COVER TAPE	21.3mm



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