

一体成型功率电感

Data Sheet



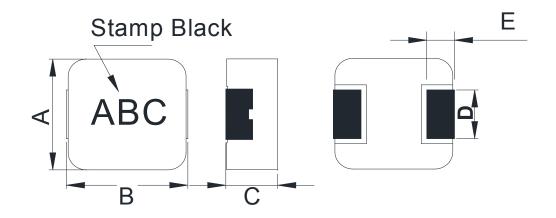
Shenzhen Deyan Electronics Co., Ltd

			AMENDMENT RECORD			
SYMBOL	DATE	PAGE	CONTENTS	DWN. BY	CHK. BY	APP. BY
				叶枫	李林	谢 东



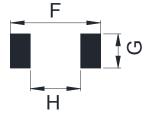
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1. DIMENSIONS (UNIT: mm)



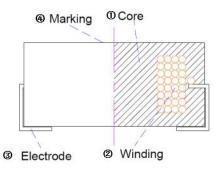
Α	В	С	D	Е
12.6±0.2	13.8 Max	6.5 Max.	3.7±0.5	2.7±0.5

2. RECOMMENDED LAND PATTERN (UNIT: mm)



F	14.5 Ref.
G	5.0 Ref.
Н	6.5 Ref.

3. STRUCTURE



No.	PARTS	MATERIAL
1	CORE	Alloy powder
2	WIRE	Self bonding polyamide-imide enameled Copper Wire
3	ELECTRODE	Cu
4	MARKING	INK

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4.CHARACTERISTICS

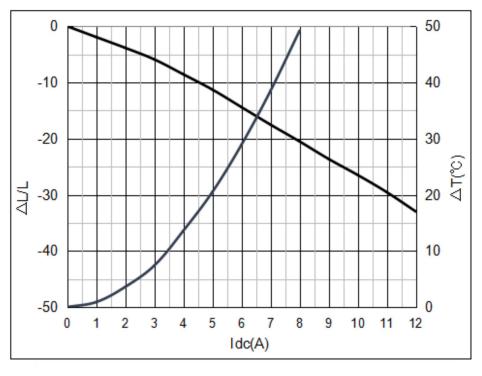
No.	P/N.	Inductance (µH)	Stamp	D.C.R. (mΩ) Max.	Satura Curre (A)	ent	current(/	ature rise ∆T≦40℃) \).
				· · · · · · · · · · · · · · · · · · ·	Тур	MAX	Тур	MAX
01	D1265HP-150MT	15±20%	150	30	10.5	8.5	7.0	6.0

* Testing instrument: Inductance HP 4284A or equivalent at 100KHz /1V..

D.C.R : TH2512B or equivalent. (Ta= 25°C)

Saturation current: WK 3260B+3265B or equivalent.

- * Saturation Current (Isat) will cause L0 to drop approximately 30% from its value without current. (Ta=25℃)
- * The temperature rise current value is the DC current value having temperature increase up to approximately 40°C (Ta=25°C)
- * Absolute maximum voltage 30VDC



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5.GENERAL CHARACTERISTICS

* STANDARD TESTING CONDITIONS:

UNLESS OTHERWISE SPECIFIED, THE STANDARD RANGE OF ATMOSPHERIC CONDITIONS FOR MEASUREMENTS AND TESTS ARE AS FOLLOWS: AMBIENT TEMPERATURE: 15 $^{\circ}$ C ~35 $^{\circ}$ C.

RELATIVE HUMIDITY: 25% ~85%. AIR PRESSURE: 86kPa ~106kPa.

IF THERE IS ANY DOUBT ABOUT THE RESULTS, MEASUREMENT SHALL BE MADE WITHIN THE FOLLOWING LIMITS: AMBIENT TEMPERATURE: 20 °C±1 °C. RELATIVE HUMIDITY: 63% ~67%.

AIR PRESSURE: 86kPa ~106kPa.

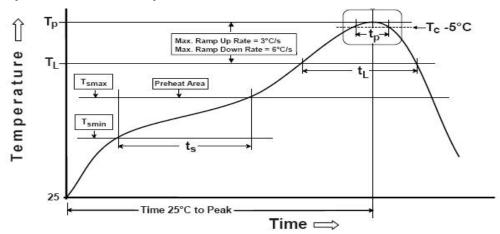
No.	ITEMS	CONDITIONS	SPECIFICATION
1	OPERATION TEMPERATURE		-40 ∼ + 125℃ (INCLUDING COIL TEMPERATURE
	STORAGE TEMPERATURE		RISE) -40 ∼ + 125°C
2	TEMPERATURE	-30 ∼ +105°C	$0 \sim 2000$ ppm/ $^{\circ}$ C
3	FIXING STRENGTH	SAMPLE IS PUSHED IN THREE DIRECTIONS OF X, Y AND Z WITH FORCE OF 5. 0N FOR 10±5 SECONDS. AFTER SOLDERING BETWEEN COPPER PLATE AND	NO ELECTRODE DETACHMENT.
4	RESISTANCE TO SOLDERING HEAT TEST	ELECTRODES. REFER TO THE SPEC "STD-001NP".	NO MECHANICAL BREAKAGE. DEVIATION RELATIVE TO INITIAL VALUE: L: WITHIN ±10%
5	SOLDERABILITY TEST	IMMERSE THE ELECTRODE IN FLUX FOR 5 SECONDS. THEN DIP THE ELECTRODE INTO A SOLDERING BATH OF 245 \pm 5 $^{\circ}$ C FOR 2 \pm 0.5 SECONDS.	OVER 95% OF THE SURFACE BEING IMMERSED SHALL BE COVERED WITH NEW SOLDER UNIFORMLY.
6	VIBRATION TEST	AMPLITUDE: 1.5mm P-P FREQUENCY:10~55~10Hz (1 MINUTE PER CYCLE) DURATION: 1 HOUR IN EACH OF X, Y, Z AXIS.	DEVIATION RELATIVE TO INITIAL VALUE: L: WITHIN ±10%
7	HUMIDITY TEST	TEMPERATURE: $40^{\circ}\pm2^{\circ}$ HUMIDITY: $90\%\sim95\%$ RH DURATION: 96 ± 4 HOURS.	DEVIATION RELATIVE TO INITIAL VALUE: L: WITHIN ±10%
8	THERMAL SHOCK TEST	20 CYCLES OF +105℃ FOR 30 MINUTES, -40℃ FOR 30 MINUTES. CHARACTERISTICS ARE MEASURED AFTER THE AMBIENT AIR EXPOSURE OF 1 HOUR	DEVIATION RELATIVE TO INITIAL
9	HIGH TEMPERATURE STORAGE TEST	TEMPERATURE: 125℃±2℃ DURATION: 96±4 HOURS	VALUE: L: WITHIN ±10%
10	LOW TEMPERATURE STORAGE TEST	TEMPERATURE: -40℃±3℃ DURATION: 96±4 HOURS.	

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. Reflow profile for SMT components



Reflow is referred to standard IPC/ JEDEC J-STD-020D

Profile Feature		Lead(Pb) Free solder
Duckastand	·temperature Min.(Tsmin)	150℃
Preheat and soak	·temperature Max.(Tsmax)	200℃
Soak	·time(Tsmin to Tsmax)(t _s)	60-120 Seconds
Average ramp up	rate Tsmax to Tp	3°C/Second Max.
Liquidous tempe	rature (T _L)	217 °C
Time (T _L) mainta	ined above T∟	60-150 seconds
Peak package bo	ody temperature (Tp)	Table2
Time (tp)* within	5 °C of the specified classification	30* seconds
temperature (Tc)		
Average Ramp-c	lown rate (Tp to TL)	6 °C/second max
Time 25 °C to pe	eak temperature	8 minutes max.

Table2. Pb-Free Process - Classification Temperatures (Tc)

			(- /
Package Thickness	Volume mm ³ <350	Volume mm ³ 350~2000	Volume mm³ >2000
<1.6 mm	260℃	260℃	260℃
1.6mm- 2.5mm	260℃	250℃	245℃
>2.5 mm	250℃	245℃	245℃

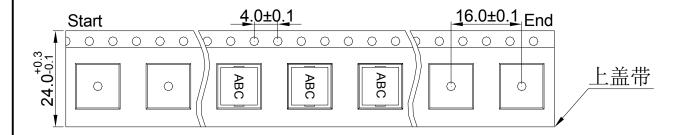
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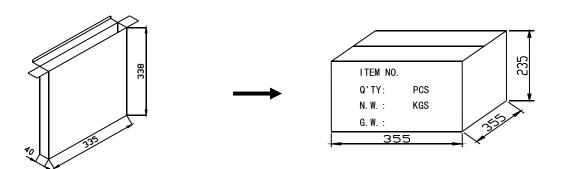


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7. PACKING

REFER TO STANDARD PACKING DRAWING. 500PCS/R





REEL	500PCS
BOX	2500PCS

8. NOTE

SOLDERING TIN PERIOD OF VALIDITY: SIX MONTHS STORAGE TEMPERATURE: $25\,^{\circ}\pm5\,^{\circ}$ COMPARATIVELY HUMIDITY: 35%--70%

DESIGN

