

## YT1265 Series

### Introduction

- ROHS, Halogen Free and REACH compliance
- High rated current
- 125°C maximum total temperature operation
- 13.8×12.9×6.5mm maximum surface mount package
- Low core loss
- Ultra low buzz noise due to molding construction

### Applications

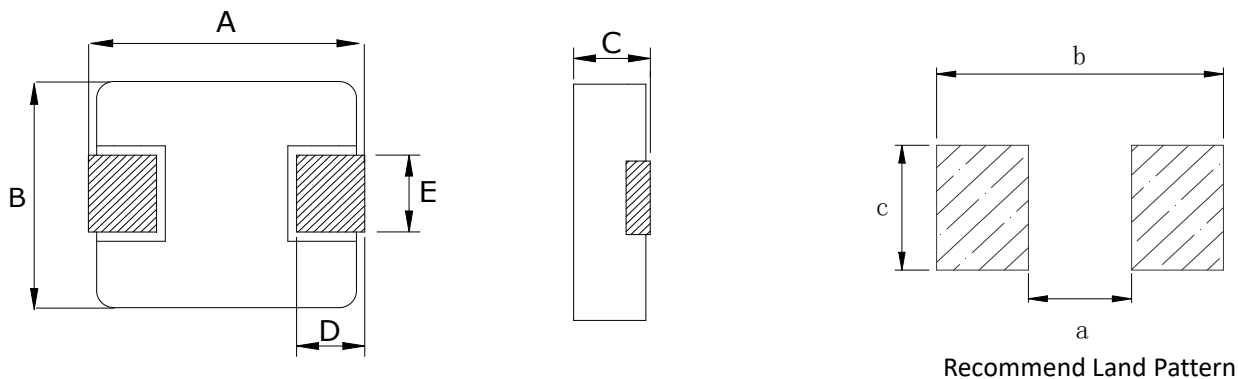
- Laptops and PCs
- Switch and servers
- Base stations
- DC/DC converters
- Battery powered devices
- SSD modules

### Product Identification

YT      1265      --1R5      M  
 ①          ②          ③          ④

- ① YT ----- Series name
- ② 1265 ----- Dimension
- ③ 1R5 ----- Inductance Value (1R5 = 1.5μH)
- ④ M -----Inductance Tolerance ( M= ± 20% )

### Dimensions (unit:mm)



Recommend Land Pattern

A	B	C	D	E	a typ	b typ	c typ
13.45±0.35	12.6±0.3	6.5MAX	2.0±0.5	5.0±0.3	8	14.5	5.5

Part No.	Inductance	DC Resistance	Saturation Current	Heating Rating Current
	L0 (μH)	DCR (mΩ)	Isat (A)	Irms (A)
	±20 %, 100 kHz, 1V	MAX.	TYP.	TYP.
YT1265-4R7M-E50	4.7	8.5	24	16
YT1265-5R6M-E50	5.6	10.5	22.5	14
YT1265-6R8M-E50	6.8	12	19	13
YT1265-8R2M-E50	8.2	14	16	12
YT1265-100M-E50	10	16.5	15	11
YT1265-150M-E50	15	26	11	9.5
YT1265-220M-E50	22	36	9	8
YT1265-330M-E50	33	65	8	6.5
YT1265-470M-E50	47	70	6.8	5.5
YT1265-680M-E50	68	120	5.2	4.8
YT1265-820M-E50	82	135	4.5	4
YT1265-101M-E50	100	170	4	3.5

## Notes

1. All test data is referenced to 25 °C ambient.
2. Operating temperature range - 55 °C to + 125 °C.
3. Irms (A):DC current (A) that will cause an approximate  $\Delta T$  of 40 °C(reference ambient temperature is 25 °C).
4. Isat(A):DC current (A) that will cause L0 to drop approximately 30 %
5. The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.