苏州沃虎电子科技有限公司
SUZHOU WOHU ELECTRONIC TECHNOLOGY CO.,LTD

YT1250　Series

Introduction

• ROHS，Halogen Free and REACH compliance
• High rated current
• 125℃ maximum total temperature operation
• 13.8×12.9×5.0mm maximum surface mount package
• Low core loss
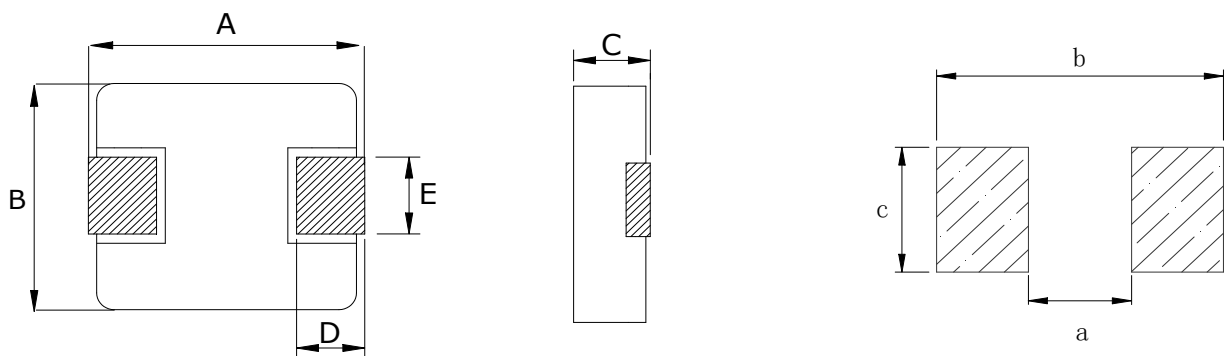• Ultra low buzz noise due to molding construction

Applications

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

Product Identification

YT	1250	--1R5	M
①	②	③	④

① YT ---------- Series name
② 1250 ---------- 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	4.8±0.2	2.0±0.5	See remarks	8	14.5	5.5

Remarks

series	E	Dimensions
YT1250	3.85±0.5	R22/R36/R50/R68/R82/1R0/1R5/2R2
	5.0±0.3	3R3/4R7/6R8/8R2/100/150/220/330/470

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.
YT1250-R22M	0.22	0.7	75	50
YT1250-R36M	0.36	0.85	50	42
YT1250-R50M	0.50	1.15	48	38
YT1250-R68M	0.68	1.55	46	33
YT1250-R82M	0.82	1.67	39	30
YT1250-1R0M	1.0	2.2	35	26
YT1250-1R5M	1.5	3.2	33	23
YT1250-2R2M	2.2	5.0	24	15
YT1250-3R3M-E50	3.3	7	22	14
YT1250-4R7M-E50	4.7	9	20	13
YT1250-6R8M-E50	6.8	18	16	12
YT1250-8R2M-E50	8.2	20	13	9.5
YT1250-100M-E50	10	22	12	9
YT1250-150M-E50	15	30	10	8
YT1250-220M-E50	22	58	6.5	4.5
YT1250-330M-E50	33	84	6.0	3.5
YT1250-470M-E50	47	130	5.0	3.0

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 ΔT 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.