**浙江和兴电子有限公司**

**MOLDING POWER INDUCTORS**

**1. Features**

* High rated current
* Frequency of up to 3 MHz
* Maximum operating temperature, 125℃
* Low core loss
* Ultra low humming noise due to molding construction
* Halogen Free & ROHS compliant

**2. Applications**

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

**3. Product Identification**

YT/YTA XXXX --- XXX M

① ② ③ ④

① Series name

② Dimensions and shape (0412~1260)

③ Inductance Value

④ Inductance Tolerance (M=±20%)

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**4. Dimensions**

A

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**(unit:mm)**

C

b

S

B

E

c

D

 a

Recommend Land Pattern

F

Schematic Drawing

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **series** | **A** | **B** | **C** | **D** | **E** | **a type** | **b type** | **c type** |
| YTA0412 | 4.4±0.35 | 4.2±0.25 | 1.0±0.2 | 0.8±0.3 | 2.0±0.3 | 2.2 | 5.2 | 2.5 |
| YTA0420 | 4.4±0.35 | 4.2±0.25 | 1.8±0.2 | 0.8±0.3 | 2.0±0.3 | 2.2 | 5.2 | 2.5 |
| YTA0518 | 5.4±0.35 | 5.2±0.2 | 1.6±0.2 | 1.2±0.2 | 2.2±0.3 | 2.2 | 6 | 2.5 |
| YTA0520 | 5.4±0.35 | 5.2±0.2 | 1.8±0.2 | 1.2±0.2 | 2.2±0.3 | 2.2 | 6 | 2.5 |
| YTA0530 | 5.4±0.35 | 5.2±0.2 | 2.8±0.2 | 1.2±0.2 | 2.2±0.3 | 2.2 | 6 | 2.5 |
| YTA0618 | 7.0±0.3 | 6.6±0.2 | 1.6±0.2 | 1.6±0.3 | 3.0±0.3 | 3.7 | 8.4 | 3.5 |
| YTA0624 | 7.0±0.3 | 6.6±0.2 | 2.2±0.2 | 1.6±0.3 | 3.0±0.3 | 3.7 | 8.4 | 3.5 |
| YT0630 | 7.0±0.3 | 6.6±0.2 | 2.8±0.2 | 1.6±0.3 | 3.0±0.3 | 3.7 | 8.4 | 3.5 |
| YT0640 | 7.0±0.3 | 6.6±0.2 | 3.8±0.2 | 1.6±0.3 | 3.0±0.3 | 3.7 | 8.4 | 3.5 |
| YT0650 | 7.0±0.3 | 6.6±0.2 | 4.8±0.2 | 1.6±0.3 | 3.0±0.3 | 3.7 | 8.4 | 3.5 |
| YT1040 | 11.5MAX | 10.0±0.3 | 3.8±0.2 | 2.0±0.5 | 3.0±0.5 | 5.4 | 13.6 | 4.1 |
| YT1240 | 13.45±0.35 | 12.8±0.5 | 4.0MAX | 2.0±0.5 | See Remarks | 8.0 | 14.5 | 5.5 |
| YT1250 | 13.45±0.35 | 12.6±0.3 | 4.8±0.2 | 2.0±0.5 | See Remarks | 8.0 | 14.5 | 5.5 |
| YT1260 | 13.45±0.35 | 12.6±0.3 | 5.8±0.2 | 2.0±0.5 | 5.0±0.3 | 8.0 | 14.5 | 5.5 |

**Remarks:**

|  |  |  |
| --- | --- | --- |
| **series** | **E** | **Dimensions** |
| YT1240 | 3.85±0.5 | R22/R47 |
|  | 5.0±0.3 | R68/R82/1R0/1R5/2R2/3R3/4R7/6R8/100/150/220  |
| YT1250 | 3.85±0.5 | R22/R36/R50/R68/R82/1R0/1R5/2R2  |
|  | 5.0±0.3 | 3R3/4R7/6R8/100/150/220/330/470  |

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**5. Marking**

Inductors are marked with a recognizable 3-digit code

|  |
| --- |
| Nominal Inductance |
| Example | Nominal Value |
| 1R0 | 1.0 μH |
| 100 | 10 μH |
| 101 | 100 μH |

1R0

**Note：Ink is used for marking**

**6. Structure and Components**

|  |  |  |
| --- | --- | --- |
| Symbol | Component | Material |
| a | MARKING | Ink (black) |
| b | CORE | Alloy Sponge Powder |
| c | WIRE | Polyurethane copper wire |
| d | Terminal | Copper plated with Sn |



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**7. Electrical characteristics**

• **YTA0412 TYPE ：**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  **Part No.****.** | **Inductance** | **DC Resistance** | **Saturation Current** | **Heating Rated Current** |
| **Part No.** | L0 (μH) | DCR (mΩ) | Isat (A) | Irms (A) |
| **Part No.** | ±20 %, 100 kHz, 1V | MAX. | TYP. | TYP. |
| YTA0412-R15M | 0.15 | 9 | 15 | 7.5 |
| YTA0412-R22M | 0.22 | 11 | 11 | 7 |
| YTA0412-R33M | 0.33 | 19 | 8.4 | 6.5 |
| YTA0412-R47M | 0.47 | 21 | 6.8 | 6 |
| YTA0412-R68M | 0.68 | 36 | 6 | 4.7 |
| YTA0412-1R0M | 1.0 | 47 | 5.5 | 4.5 |
| YTA0412-1R5M | 1.5 | 75 | 4 | 3.25 |
| YTA0412-2R2M | 2.2 | 83.5 | 3 | 2.75 |
| YTA0412-4R7M | 4.7 | 195 | 2.2 | 1.8 |

• **YTA0420 TYPE ：**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  **Part No.****Part No.** | **Inductance** | **DC Resistance** | **Saturation Current** | **Heating Rated Current** |
| **Part No.** | L0 (μH) | DCR (mΩ) | Isat (A) | Irms (A) |
| **Part No.** | ±20 %, 100 kHz, 1V | MAX. | TYP. | TYP. |
| YTA0420-R10M | 0.1 | 4 | 22 | 13 |
| YTA0420-R22M | 0.22 | 6.6 | 12.5 | 9.5 |
| YTA0420-R33M | 0.33 | 11 | 12 | 10 |
| YTA0420-R47M | 0.47 | 14 | 9.5 | 7.5 |
| YTA0420-R56M | 0.56 | 16 | 9 | 7 |
| YTA0420-R68M | 0.68 | 18 | 8 | 7 |
| YTA0420-1R0M | 1.0 | 27 | 7 | 6 |
| YTA0420-1R2M | 1.2 | 27 | 6.5 | 6 |
| YTA0420-1R5M | 1.5 | 46 | 5.5 | 5 |
| YTA0420-2R2M | 2.2 | 58 | 5 | 4.5 |
| YTA0420-3R3M | 3.3 | 87 | 3.5 | 3.3 |
| YTA0420-4R7M | 4.7 | 105 | 3 | 2.8 |
| YTA0420-6R8M | 6.8 | 175 | 2.5 | 2.4 |
| YTA0420-100M | 10 | 282 | 2 | 1.6 |
| YTA0420-220M | 22 | 363 | 1.4 | 1.2 |



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• **YTA0518 TYPE ：**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  **Part No.****Part No.** | **Inductance** | **DC Resistance** | **Saturation Current** | **Heating Rated Current** |
| **Part No.** | L0 (μH) | DCR (mΩ) | Isat (A) | Irms (A) |
| **Part No.** | ±20 %, 100 kHz, 1V | MAX. | TYP. | TYP. |
| YTA0518-R47M | 0.47 | 9 | 12.0 | 10.5 |
| YTA0518-R56M | 0.56 | 10 | 11 | 9.5 |
| YTA0518-1R0M | 1.0 | 17 | 9.0 | 8.0 |
| YTA0518-1R5M | 1.5 | 26 | 8 | 7.5 |
| YTA0518-2R2M | 2.2 | 35 | 6.0 | 5.0 |
| YTA0518-3R3M | 3.3 | 58 | 4.8 | 4.5 |
| YTA0518-4R7M | 4.7 | 85 | 4.0 | 3.5 |
| YTA0518-6R8M | 6.8 | 120 | 3.4 | 2.8 |
| YTA0518-100M | 10 | 155 | 2.5 | 2.5 |

• **YTA0520 TYPE：**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  **Part No.****Part No.** | **Inductance** | **DC Resistance** | **Saturation Current** | **Heating Rated Current** |
| **Part No.** | L0 (μH) | DCR (mΩ) | Isat (A) | Irms (A) |
| **Part No.** | ±20 %, 100 kHz, 1V | MAX. | TYP | TYP |
| YTA0520-R22M | 0.22 | 4.5 | 19 | 15 |
| YTA0520-R47M | 0.47 | 9 | 16 | 10.5 |
| YTA0520-R56M | 0.56 | 10 | 15 | 9.5 |
| YTA0520-1R0M | 1.0 | 17 | 9.5 | 8.0 |
| YTA0520-1R5M | 1.5 | 30 | 8.5 | 5.5 |
| YTA0520-2R2M | 2.2 | 34 | 7 | 5 |
| YTA0520-3R3M | 3.3 | 58 | 5.5 | 4.5 |
| YTA0520-4R7M | 4.7 | 78 | 4.5 | 3.5 |
| YTA0520-6R8M | 6.8 | 120 | 3.5 | 2.8 |
| YTA0520-8R2M | 8.2 | 150 | 3.3 | 2.6 |
| YTA0520-100M | 10 | 175 | 3 | 2.5 |

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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  **Part No.****o.** | **Inductance** | **DC Resistance** | **Saturation Current** | **Heating Rated Current** |
| **Part No.** | L0 (μH) | DCR (mΩ) | Isat (A) | Irms (A) |
| **Part No.** | ±20 %, 100 kHz, 1V | MAX. | TYP. | TYP. |
| YTA0530-R10M | 0.10 | 3.0 | 30 | 25 |
| YTA0530-R20M | 0.20 | 3.9 | 20 | 14 |
| YTA0530-R33M | 0.33 | 5.5 | 18 | 14 |
| YTA0530-R47M | 0.47 | 8.5 | 15 | 11 |
| YTA0530-R68M | 0.68 | 12 | 11.5 | 9.0 |
| YTA0530-1R0M | 1.0 | 14 | 10 | 8.5 |
| YTA0530-1R2M | 1.2 | 16 | 9.5 | 8.5 |
| YTA0530-1R5M | 1.5 | 25 | 9 | 8.2 |
| YTA0530-2R2M | 2.2 | 29 | 7.0 | 7.0 |
| YTA0530-3R3M | 3.3 | 38 | 6.0 | 5.5 |
| YTA0530-4R7M | 4.7 | 60 | 4.6 | 4.5 |
| YTA0530-6R8M | 6.8 | 90 | 3.6 | 3.5 |
| YTA0530-100M | 10 | 125 | 3.5 | 3.2 |

• **YTA0530 TYPE：**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  **Part No.****o.** | **Inductance** | **DC Resistance** | **Saturation Current** | **Heating Rated Current** |
| **Part No.** | L0 (μH) | DCR (mΩ) | Isat (A) | Irms (A) |
| **Part No.** | ±20 %, 100 kHz, 1V | MAX. | TYP. | TYP. |
| YTA0618-R10M | 0.10 | 2.3 | 38 | 25 |
| YTA0618-R22M | 0.22 | 3.5 | 24 | 22 |
| YTA0618-R47M | 0.47 | 8.4 | 18 | 11.5 |
| YTA0618-R68M | 0.68 | 12 | 16.5 | 9.5 |
| YTA0618-1R0M | 1.0 | 16 | 12 | 8.5 |
| YTA0618-1R5M | 1.5 | 26 | 9.2 | 8 |
| YTA0618-2R2M | 2.2 | 35 | 8 | 7 |
| YTA0618-3R3M | 3.3 | 50 | 6 | 4.5 |
| YTA0618-4R7M | 4.7 | 62 | 5 | 4 |
| YTA0618-6R8M | 6.8 | 110 | 4.5 | 3 |
| YTA0618-100M | 10 | 155 | 4 | 2.3 |
| YTA0618-220M | 22 | 350 | 2.3 | 1.8 |

• **YTA0618 TYPE**

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• **YTA0624 TYPE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  **Part No.****Part No.** | **Inductance** | **DC Resistance** | **Saturation Current** | **Heating Rated Current** |
| **Part No.** | L0 (μH) | DCR (mΩ) | Isat (A) | Irms (A) |
| **Part No.** | ±20 %, 100 kHz, 1V | MAX. | TYP. | TYP. |
| YTA0624-R22M | 0.22 | 3 | 30 | 21 |
| YTA0624-R33M | 0.33 | 4.1 | 24.5 | 18 |
| YTA0624-R47M | 0.47 | 5.1 | 20 | 15 |
| YTA0624-R56M | 0.56 | 6.5 | 17 | 13 |
| YTA0624-R68M | 0.68 | 7 | 16 | 12 |
| YTA0624-1R0M | 1.0 | 13.5 | 15 | 9 |
| YTA0624-1R5M | 1.5 | 20 | 13.5 | 8.2 |
| YTA0624-2R2M | 2.2 | 28 | 10 | 7 |
| YTA0624-3R3M | 3.3 | 39 | 8 | 5.5 |
| YTA0624-4R7M | 4.7 | 50 | 6.5 | 5 |
| YTA0624-6R8M | 6.8 | 70 | 6 | 4 |
| YTA0624-100M | 10 | 101 | 4 | 3.1 |
| YTA0624-150M | 15 | 160 | 3.3 | 2.5 |
| YTA0624-220M | 22 | 230 | 2.5 | 2 |

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• **YT0630 TYPE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  **Part No.****Part No.** | **Inductance** | **DC Resistance** | **Saturation Current** | **Heating Rated Current** |
| **Part No.** | L0 (μH) | DCR (mΩ) | Isat (A) | Irms (A) |
| **Part No.** | ±20 %, 100 kHz, 1V | MAX. | TYP. | TYP. |
| YT0630-R22M | 0.22 | 3 | 34 | 24 |
| YT0630-R33M | 0.33 | 3.5 | 25 | 21 |
| YT0630-R47M | 0.47 | 4.1 | 20 | 18 |
| YT0630-R56M | 0.56 | 4.5 | 18 | 16.5 |
| YT0630-R68M | 0.68 | 5.3 | 17 | 16 |
| YT0630-R82M | 0.82 | 6.0 | 16 | 14 |
| YT0630-1R0M | 1.0 | 7.4 | 15 | 12 |
| YT0630-1R5M | 1.5 | 12.1 | 12 | 12 |
| YT0630-2R2M | 2.2 | 15 | 10 | 9.5 |
| YT0630-3R3M | 3.3 | 22 | 9.5 | 8.5 |
| YT0630-4R7M | 4.7 | 33 | 9 | 6 |
| YT0630-5R6M | 5.6 | 42 | 6.5 | 5.5 |
| YT0630-6R8M | 6.8 | 48 | 6 | 5 |
| YT0630-8R2M | 8.2 | 60 | 5.5 | 5 |
| YT0630-100M | 10 | 68 | 5.5 | 4.5 |
| YT0630-150M | 15 | 113 | 4.0 | 3 |
| YT0630-220M | 22 | 170 | 3 | 2.5 |
| YT0630-330M | 33 | 270 | 2.5 | 2 |
| YT0630-470M | 47 | 385 | 2 | 1.5 |

• **YT0640 TYPE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  **Part No.****Part No.** | **Inductance** | **DC Resistance** | **Saturation Current** | **Heating Rated Current** |
| **Part No.** | L0 (μH) | DCR (mΩ) | Isat (A) | Irms (A) |
| **Part No.** | ±20 %, 100 kHz, 1V | MAX. | TYP. | TYP. |
| YT0640-2R2M | 2.2 | 14 | 11.0 | 9 |
| YT0640-4R7M | 4.7 | 30 | 9.0 | 7.0 |
| YT0640-150M | 15 | 110 | 4.5 | 3.5 |



• **YT0650 TYPE ：**

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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  **Part No.****Part No.** | **Inductance** | **DC Resistance** | **Saturation Current** | **Heating Rated Current** |
| **Part No.** | L0 (μH) | DCR (mΩ) | Isat (A) | Irms (A) |
| **Part No.** | ±20 %, 100 kHz, 1V | MAX. | TYP. | TYP. |
| YT0650-R47M | 0.47 | 3.9 | 21.0 | 20 |
| YT0650-R68M | 0.68 | 4.5 | 18.0 | 16.5 |
| YT0650-1R0M | 1.0 | 6.6 | 16.0 | 12 |
| YT0650-1R5M | 1.5 | 10 | 13.0 | 9.5 |
| YT0650-2R2M | 2.2 | 12.5 | 11.0 | 9 |
| YT0650-3R3M | 3.3 | 22.0 | 10.0 | 8.5 |
| YT0650-4R7M | 4.7 | 29 | 8 | 6 |
| YT0650-6R8M | 6.8 | 41 | 6.3 | 5.8 |
| YT0650-8R2M | 8.2 | 48 | 5.5 | 5.5 |
| YT0650-100M | 10 | 60 | 5.3 | 4.5 |
| YT0650-150M | 15 | 90 | 4.0 | 3.1 |
| YT0650-220M | 22 | 140 | 3.5 | 2.6 |
| YT0650-330M | 33 | 190 | 3.0 | 2.3 |
| YT0650-470M | 47 | 230 | 2.6 | 2.0 |



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• **YT1040 TYPE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  **Part No.****Part No.** | **Inductance** | **DC Resistance** | **Saturation Current** | **Heating Rated Current** |
| **Part No.** | L0 (μH) | DCR (mΩ) | Isat (A) | Irms (A) |
| **Part No.** | ±20 %, 100 kHz, 1V | MAX. | TYP. | TYP. |
| YT1040-R15M | 0.15 | 0.65 | 75 | 45 |
| YT1040-R22M | 0.22 | 1 | 60 | 35 |
| YT1040-R30M | 0.3 | 1.1 | 45 | 35 |
| YT1040-R36M | 0.36 | 1.2 | 45 | 30 |
| YT1040-R47M | 0.47 | 1.7 | 40 | 30 |
| YT1040-R56M | 0.56 | 1.8 | 33 | 25 |
| YT1040-R68M | 0.68 | 2.4 | 30 | 23 |
| YT1040-R80M | 0.8 | 2.7 | 29 | 23 |
| YT1040-1R0M | 1.0 | 3.3 | 28 | 19 |
| YT1040-1R5M | 1.5 | 4.2 | 24 | 16 |
| YT1040-2R2M | 2.2 | 7 | 16.5 | 12 |
| YT1040-3R3M | 3.3 | 11.8 | 16 | 11 |
| YT1040-4R7M | 4.7 | 20 | 13 | 9 |
| YT1040-6R8M | 6.8 | 25 | 12 | 8.5 |
| YT1040-8R2M | 8.2 | 27 | 9 | 8 |
| YT1040-100M | 10 | 30 | 8.5 | 7.8 |
| YT1040-150M | 15 | 45 | 7 | 6.5 |
| YT1040-220M | 22 | 66 | 5.5 | 5 |
| YT1040-330M | 33 | 92 | 4.8 | 4.4 |
| YT1040-470M | 47 | 145 | 3.5 | 3.3 |
| YT1040-680M | 68 | 195 | 3 | 2.5 |



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• **YT1240 TYPE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  **Part No.****Part No.** | **Inductance** | **DC Resistance** | **Saturation Current** | **Heating Rated Current** |
| **Part No.** | L0 (μH) | DCR (mΩ) | Isat (A) | Irms (A) |
| **Part No.** | ±20 %, 100 kHz, 1V | MAX. | TYP. | TYP. |
| YT1240-R22M | 0.22 | 0.9 | 50.0 | 42.0 |
| YT1240-R47M | 0.47 | 2.0 | 48.0 | 33.0 |
| YT1240-R68M-E50 | 0.68 | 3.5 | 47.0 | 28.0 |
| YT1240-R82M-E50 | 0.82 | 4.5 | 40.0 | 28.0 |
| YT1240-1R0M-E50 | 1.0 | 7.5 | 35.0 | 24.0 |
| YT1240-1R5M-E50 | 1.5 | 9.5 | 30.5 | 20.0 |
| YT1240-2R2M-E50 | 2.2 | 11.5 | 26.0 | 18.0 |
| YT1240-3R3M-E50 | 3.3 | 13.0 | 21.0 | 15.0 |
| YT1240-4R7M-E50 | 4.7 | 14.5 | 18.0 | 13.0 |
| YT1240-6R8M-E50 | 6.8 | 20.0 | 14.0 | 9.0 |
| YT1240-100M-E50 | 10.0 | 25.0 | 10.0 | 8.0 |
| YT1240-150M-E50 | 15.0 | 39.0 | 7.5 | 6.5 |
| YT1240-220M-E50 | 22.0 | 51.0 | 6.0 | 4.5 |

• **YT1250 TYPE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  **Part No.****Part No.** | **Inductance** | **DC Resistance** | **Saturation Current** | **Heating Rated Current** |
| **Part No.** | L0 (μH) | DCR (mΩ) | Isat (A) | Irms (A) |
| **Part No.** | ±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 |
| YT1250-100M-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 |



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• **YT1260 TYPE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  **Part No.****Part No.** | **Inductance** | **DC Resistance** | **Saturation Current** | **Heating Rated Current** |
| **Part No.** | L0 (μH) | DCR (mΩ) | Isat (A) | Irms (A) |
| **Part No.** | ±20 %, 100 kHz, 1V | MAX. | TYP. | TYP. |
| YT1260-4R7M-E50 | 4.7 | 9.0 | 24.0 | 15.0 |
| YT1260-5R6M-E50 | 5.6 | 11.0 | 22.5 | 13.0 |
| YT1260-6R8M-E50 | 6.8 | 13.5 | 19.0 | 12.0 |
| YT1260-8R2M-E50 | 8.2 | 16.0 | 13.5 | 11.0 |
| YT1260-100M-E50 | 10.0 | 20.7 | 12.5 | 10.0 |
| YT1260-120M-E50 | 12.0 | 23.0 | 10 | 9.0 |
| YT1260-150M-E50 | 15.0 | 29.0 | 9.0 | 8.5 |
| YT1260-180M-E50 | 18.0 | 35.0 | 8.0 | 7.5 |
| YT1260-220M-E50 | 22.0 | 39.5 | 7.5 | 7.0 |
| YT1260-270M-E50 | 27.0 | 56.0 | 6.5 | 6.0 |
| YT1260-330M-E50 | 33.0 | 75.0 | 6.0 | 5.5 |
| YT1260-470M-E50 | 47.0 | 90.0 | 5.5 | 5.0 |
| YT1260-680M-E50 | 68.0 | 140.0 | 4.5 | 4.0 |
| YT1260-101M-E50 | 100.0 | 200.0 | 3.5 | 3.0 |
| YT1260-121M-E50 | 120.0 | 235.0 | 3.2 | 2.0 |
| YT1260-151M-E50 | 150.0 | 350.0 | 2.7 | 1.5 |

• **Notes**

1. All test data is referenced at an ambient temperature of 25 °C
2. Operating temperature range from - 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 by 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.

6. Absolute maximum voltage, 30VDC



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**8. Reliability Test**

|  |  |  |
| --- | --- | --- |
| **Item** | **Specification and Requirement** | **Test Method** |
| Solder ability | 1. No case deformationor change in appearance2. New solder coverageMore than 90% | 1.Preheat：155℃±5℃ ，60S ±2S2.Tin: lead-free.3.Temperature:245℃±5℃，flux 3.0S±0.5S. |
| Mechanicalshock | 1. No case deformationor change in appearance2. △ L/Lo ≦±10% | 1. Acceleration： 100G2. Pulse time:：6ms3. 3 times in each positive and negative direction of 3 mutually perpendicular directions |
| Mechanicalvibration | 1. No case deformationor change in appearance2. △ L/Lo ≦±10% | 1. The test samples shall be soldered to the board. Then they shall be placed under to the following test conditions.

|  |  |
| --- | --- |
| Fre. Range | 10~55Hz |
| Total Amplitude | 1.5mm |
| Sweeping Method | 10Hz to 55Hz to 10Hz |
| Time | For 2 hours on each X,Y,Z axis. |

2. Recovery: At least 2 hours of recovery under standard conditions after the test, followed by measurement within 24 ±2 hours. |
| Thermal Shock | Inductance change:Within ± 10%, Without distinct damage in appearance | 1. First step: place the product under -55℃ for 30 minutes. Second step: place the product under 125℃ for 30 minutes as 1 cycle. Last step: repeat the procedure 1000 times.2. Maximum transfer time is 2 minutes.3. Measured at room temperature after placing for 24 ±2 hours |
| HumidityResistance | Inductance change:Within ± 10%, Without distinct damage in appearance | 1.Reflow 2 times,2.Placed under 85℃at 85%RH for1000 hours3.Measured at room temperature after placing for 24±2 hours |
| Lowtemperaturestorage | Inductance change:Within ± 10%, Without distinct damage in appearance | 1. Temperature：-55 ± 2℃2. Time：1000 hours3. Measured at room temperature after placing for 24 ±2 hours |



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|  |  |  |
| --- | --- | --- |
| Hightemperaturestorage | Inductance change:Within ± 10%, Without distinct damage in appearance | 1. Temperature：+125 ± 2 ℃2. Time：1000 hours3. Measured at room temperature after placing for 24 ±2 hours |
| Board Flex | Inductance change:Within ± 10%, Without distinct damage in appearance | 1. Run through IR reflow for 2 times；2 . Place the 100mm X 40mm board into a fixture similar to the one shown in Figure [X] below, and with the component facing down;3. The apparatus shall consist of mechanical means to apply a force which will bend the board (D) x = 2 mm minimum.4 、 The duration of the applied forces shall be 60 ± 5 sec. The force is to be applied only once to the board. |
| TerminalStrength | No removal or split of the termination or other defects shall be done. | 1、The test samples shall be soldered to the board2、The product shall be pushed vertically from the side of the sample using a thrust tester.3、Automotive electronics：17.7N，60S±1s，X ，Y direct.X directY direct |



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**Recommended Soldering Technologies**

**(1) Re-flowing Profile**

Preheat condition: 150 ~200℃/60~180sec.

Allowed time above 217℃: 80~120sec.

Max temp: 260℃

Max time at max temp: 10 sec.

Solder paste: Sn/3.0Ag/0.5Cu

Allowed Reflow time: 2x max

**(2) Iron Soldering Profile**

Iron soldering power: Max. 30W

Preheat temperature : 150℃/60sec.

Soldering time: 3sec. Max.

Solder paste: Sn/3.0Ag/0.5Cu

Max.1 time for iron soldering



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**9. Packaging, Storage and Transportation**

• Tape Carrier Packaging:

|  |  |  |  |
| --- | --- | --- | --- |
| Type | Standard Quantity(pcs/reel) | Type | Standard Quantity(pcs/reel) |
| YT0412 | **3000** | YT0640 | **1000** |
| YT0420 | **3000** | YT0650 | **1000** |
| YT0518 | **2000** | YT1040 | **500** |
| YT0520 | **2000** | YT1045 | **500** |
| YT0530 | **2000** | YT1240 | **500** |
| YT0618 | **2000** | YT1250 | **500** |
| YT0624 | **1500** | YT1260 | **500** |
| YT0630 | **1500** |  |  |

• Taping Drawings (UNIT:mm)

• Reel and Taping Dimensions (UNIT:mm)

N A

C



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|  |  |  |
| --- | --- | --- |
| Type | Reel Dimensions（mm） | Tape Dimensions（mm） |
| Type | A | N | W | C | W | P | P0 | A0 | B0 | H | T |
| YT0412 | 330+2/-0 | 100+2/-0 | 12.4+2/-0 | 13.2±0.2 | 12±0.3 | 8±0.1 | 4±0.1 | 4.4±0.1 | 4.9±0.1 | 1.5±0.05 | 0.3±0.05 |
| YT0420 | 330+2/-0 | 100+2/-0 | 12.4+2/-0 | 13.2±0.2 | 12±0.3 | 8±0.1 | 4±0.1 | 4.4±0.1 | 4.9±0.1 | 2.3±0.05 | 0.35±0.05 |
| YT0518 | 330+2/-0 | 100+2/-0 | 12.4+2/-0 | 13.2±0.2 | 12±0.3 | 8±0.1 | 4±0.1 | 5.4±0.1 | 5.9±0.1 | 2.1±0.05 | 0.35±0.05 |
| YT0520 | 330+2/-0 | 100+2/-0 | 12.4+2/-0 | 13.2±0.2 | 12±0.3 | 8±0.1 | 4±0.1 | 5.5±0.1 | 5.85±0.1 | 2.2±0.1 | 0.35±0.05 |
| YT0530 | 330+2/-0 | 100+2/-0 | 12.4+2/-0 | 13.2±0.2 | 12±0.3 | 8±0.1 | 4±0.1 | 5.4±0.1 | 5.9±0.1 | 3.3±0.05 | 0.35±0.05 |
| YT0618 | 330+2/-0 | 100+2/-0 | 16.4+2/-0 | 13.2±0.2 | 16±0.3 | 12±0.1 | 4±0.1 | 6.9±0.1 | 7.5±0.1 | 2.1±0.05 | 0.35±0.05 |
| YT0624 | 330+2/-0 | 100+2/-0 | 16.4+2/-0 | 13.2±0.2 | 16±0.3 | 12±0.1 | 4±0.1 | 6.9±0.1 | 7.5±0.1 | 2.7±0.05 | 0.35±0.05 |
| YT0630 | 330+2/-0 | 100+2/-0 | 16.4+2/-0 | 13.2±0.2 | 16±0.3 | 12±0.1 | 4±0.1 | 6.9±0.1 | 7.5±0.1 | 3.3±0.05 | 0.35±0.05 |
| YT0640 | 330+2/-0 | 100+2/-0 | 16.4+2/-0 | 13.2±0.2 | 16±0.3 | 12±0.1 | 4±0.1 | 6.9±0.1 | 7.5±0.1 | 4.2±0.1 | 0.35±0.05 |
| YT0650 | 330+2/-0 | 100+2/-0 | 16.4+2/-0 | 13.2±0.2 | 16±0.3 | 12±0.1 | 4±0.1 | 6.9±0.1 | 7.5±0.1 | 5.2±0.1 | 0.4±0.05 |
| YT1040 | 330+2/-0 | 100+2/-0 | 24.4+2/-0 | 13.2±0.2 | 24±0.3 | 16±0.1 | 4±0.1 | 10.4±0.1 | 11.5±0.1 | 4.3±0.1 | 0.35±0.05 |
| YT1045 | 330+2/-0 | 100+2/-0 | 24.4+2/-0 | 13.2±0.2 | 24±0.3 | 16±0.1 | 4±0.1 | 10.4±0.1 | 11.5±0.1 | 4.8±0.1 | 0.35±0.05 |
| YT1240 | 330+2/-0 | 100+2/-0 | 24.4+2/-0 | 13.2±0.2 | 24±0.3 | 16±0.1 | 4±0.1 | 13.4±0.1 | 14.4±0.1 | 4.3±0.1 | 0.5±0.05 |
| YT1250 | 330+2/-0 | 100+2/-0 | 24.4+2/-0 | 13.2±0.2 | 24±0.3 | 16±0.1 | 4±0.1 | 13.2±0.1 | 14.4±0.1 | 5.3±0.1 | 0.5±0.05 |
| YT1260 | 330+2/-0 | 100+2/-0 | 24.4+2/-0 | 13.2±0.2 | 24±0.3 | 16±0.1 | 4±0.1 | 13.2±0.1 | 14.4±0.1 | 6.3±0.1 | 0.5±0.05 |



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• Peel force of the top cover tape

The peel speed shall be about 300mm/minute

The peel force of the top cover tape shall be between 0.1 to 1.3 N

• Label making

Label is placed on on the reel and displays:

* Customer's part Number
* Lot Number
* Quantity
* Date code

Shipping Label displays:

* Customer's part Number
* Manufacturer's part Number
* Quantity
* Date code