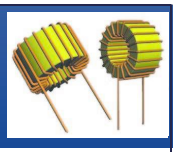
# Toroidal Coil Inductor



**ATCA-02**

Request Samples Check Inventory

**22.0 x 12.5 mm**
**RoHS/RoHS II Compliant**
**MSL Level = 1**

## Features

- Low EMI/RFI toroid topology
- High saturation currents up to 5A
- High efficiency powered iron core
- Wide operating temperature range -40°C to 105°C
- Vertical and horizontal orientations optimize EMI/RFI
- Compatible with low cost through-hole assembly

## Applications

- High power switch-mode power supplies
- High power LED ballasts
- Power line filters
- High power audio filters
- Solar inverters
- White goods
- Motor drivers

## Electrical Specifications

| Part Number | L(µH) | Tolerance | DCR(Ω) | IDC(A) | Dimension (mm) E (dia.) |
|---|---|---|---|---|---|
| | | (%) | (max) | (max) | (Nom) |
| ATCA-02-220M | 22 | M | 0.014 | 5.0 | 0.95 |
| ATCA-02-290M | 29 | M | 0.020 | 4.0 | 0.85 |
| ATCA-02-350M | 35 | M | 0.026 | 3.0 | 0.80 |
| ATCA-02-580M | 58 | M | 0.061 | 2.0 | 0.60 |
| ATCA-02-900M | 90 | M | 0.044 | 3.0 | 0.80 |
| ATCA-02-111M | 110 | M | 0.069 | 2.0 | 0.65 |
| ATCA-02-131M | 130 | M | 0.146 | 1.0 | 0.45 |
| ATCA-02-471M | 470 | M | 0.286 | 1.0 | 0.45 |

**Test Conditions**

Test Freq for L: 1KHz, 0.1Vrms

$I_{DC}$: max. 10% inductance drop from initial value

**Operating Temperature:** -40˚C ~ +105˚C (including self-temperature rise)
**Power Rating:** 15W Max
**Storage Condition:** -20˚C ~ +40˚C
**ATCA-02 is RoHS/RoHSII Compliant and Pb free**

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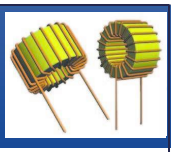
5101 Hidden Creek Ln, Spicewood TX 78669
Phone: 512-371-6159 Fax: 512-351-8858
For terms and conditions of sales, please visit:
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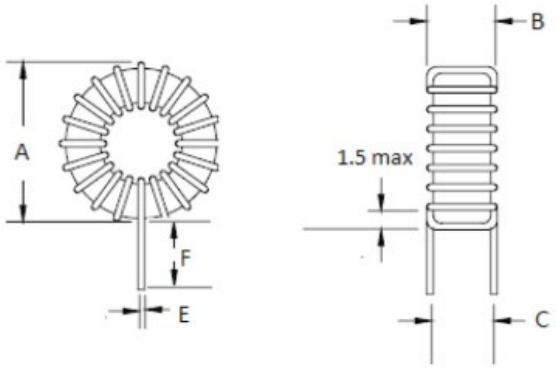
**22.0 x 12.5 mm**
**RoHS/RoHS II Compliant**
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## Part Identification

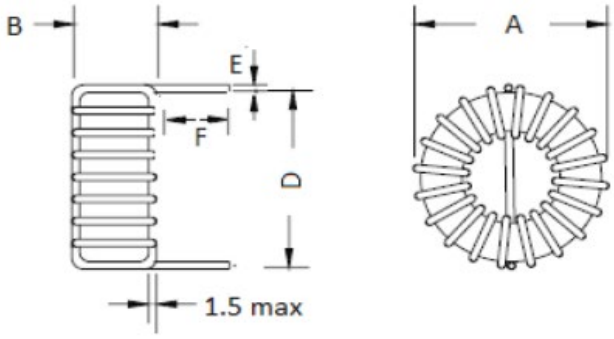
ATCA-02- ☐ ☐ - ☐

| Inductance Code | Tolerance | Packaging |
|---|---|---|
| See Electrical Specification table | M = ± 20% | H: Horizontal<br>V: Vertical |

## Mechanical Specifications




Vertical




Horizontal

| Series | A | B | C | D | F |
|---|---|---|---|---|---|
| **ATCA-02** | 22.0 Max | 12.5 Max | 12.0 Max | 21.5 Max | 15.0 Max |

Dimensions: mm


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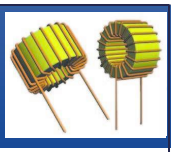
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# Toroidal Coil Inductor



**ATCA-02**

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**22.0 x 12.5 mm**
**RoHS/RoHS II Compliant**
**MSL Level = 1**

## Materials

| Part Number | Material | UL |
|---|---|---|
| Core | Iron Powder | NA |
| Wire | 155℃ | E194410 |
| Soldering | Sn-Cu | |

## Packaging

| Part Number | Pcs / Tray | Trays / Carton | Pcs / Carton |
|---|---|---|---|
| ATCA-02-xxxM-V | 100 | 6 | 600 |
| ATCA-02-xxxM-H | 100 | 6 | 600 |

ATTENTION: Abracon LLC's products are Commercial-Off-The-Shelf (COTS, which are designed, intended and validated for use in commercial, industrial and automotive applications. The customer is responsible for testing and verifying the performance of an Abracon solution to meet their system-level requirements.

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