

# Differential Mode Toroidal Coil Inductor



ATCA-08

Request Samples



Check Inventory



42.5 x 21.5 mm

RoHS/RoHS II Compliant

MSL Level = 1

## Features

- Low EMI/RFI toroid topology
- High saturation current up to 10A
- High efficiency powdered 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( $\mu$ H)	Tolerance	DCR( $\Omega$ )	IDC(A)	Dimension (mm) E (dia.)
		(%)	(max)	(max)	(Nom)
ATCA-08-750M	75	M	.014	10.0	1.60
ATCA-08-131M	130	M	.031	7.0	1.30
ATCA-08-201M	200	M	.056	5.0	1.00
ATCA-08-251M	250	M	.027	10.0	1.60
ATCA-08-471M	470	M	.064	7.0	1.30
ATCA-08-681M	680	M	.105	5.0	1.00

### Test Conditions

Test Freq for L: 1KHz, 0.1Vrms

I<sub>DC</sub>: max. 10% inductance drop from initial value

**Operating Temperature:** -40°C ~ +105°C (including self-temperature rise)

**Power Rating:** 45W Max

**Storage Condition:** -20°C ~ +40°C

**ATCA-08 is RoHS/RoHSII Compliant and Pb free**



5101 Hidden Creek Ln, Spicewood TX 78669  
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## Part Identification

ATCA-08-   -

### Inductance Code

See Electrical Specification table

### Tolerance

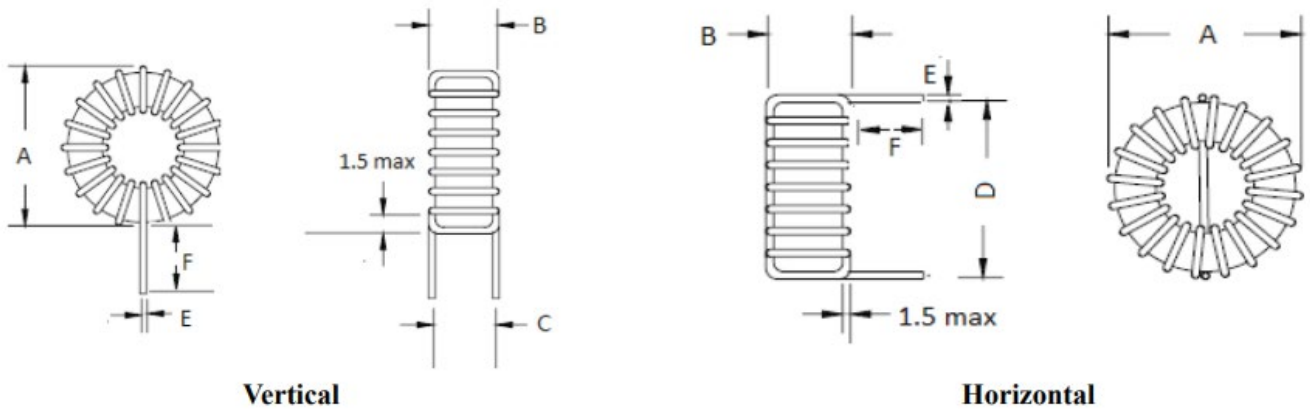
M = ± 20%

### Packaging

H: Horizontal

V: Vertical

## Mechanical Specifications



Series	A	B	C	D	F
ATCA-08	42.5 Max	21.5 Max	20.0 Max	41.0 Max	15.0 Max

Dimensions: mm



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## Materials

Part Number	Material	UL
Core	Iron Powder	NA
Wire	155°C	E194410
Soldering	Sn-Cu	

## Packaging

Part Number	Pcs / Tray	Trays / Carton	Pcs / Carton
ATCA-08-xxxM-V	24	9	216
ATCA-08-xxxM-H	20	6	120

**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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