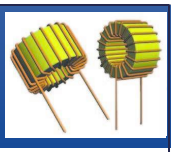
Differential Mode Toroidal Coil Inductor



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 8.4A
- 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)	Isat (A)	Irms(A)	Dimension (mm) E (dia.)
		(%)	(max)	(typ)	(max)	(Nom)
ATCA-08-750M	75	M	.014	8.4	10.0	1.60
ATCA-08-131M	130	M	.031	6.4	7.0	1.30
ATCA-08-201M	200	M	.056	5.1	5.0	1.00
ATCA-08-251M	250	M	.027	4.6	10.0	1.60
ATCA-08-471M	470	M	.064	3.3	7.0	1.30
ATCA-08-681M	680	M	.105	2.7	5.0	1.00

Test Conditions

Test Freq for L: 1KHz, 0.1Vrms
I_{sat}: current to drop in initial value of inductance by 30%.
I_{rms}: current to increase body temperature by Δ40%.

Operating Temperature: -40˚C ~ +105˚C (including self-temperature rise)
Power Rating: 45W Max
Storage Condition: -20˚C ~ +40˚C in shipping packaging.
ATCA-08 is RoHS/RoHSII Compliant and Pb free

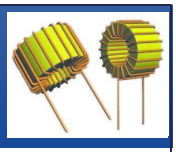
ABRACON
12117 Bee Caves Rd Bldg-3, Ste 200
Bee Cave, TX 78738
Ph: (512) 371-6159
Fax: (512) 351-8858
www.abracon.com

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Differential Mode Toroidal Coil Inductor



ATCA-08

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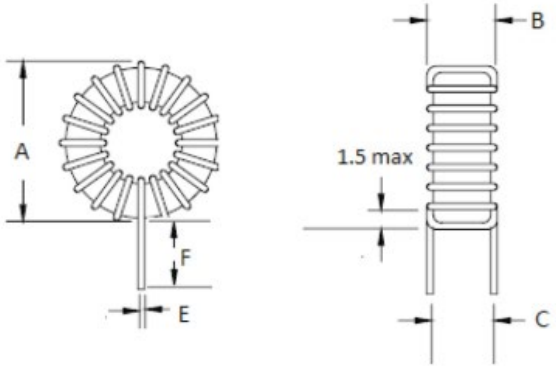
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Part Identification

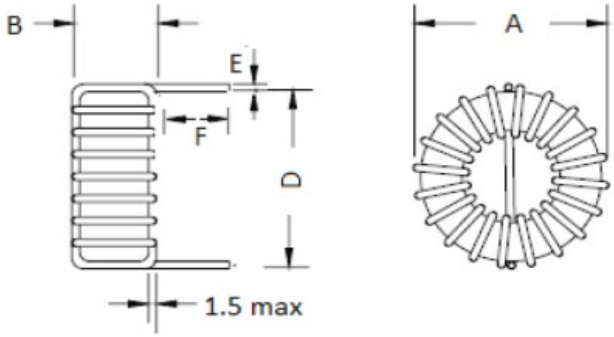
ATCA-08- ☐☐ - ☐

Inductance Code	Tolerance	Packaging
See Electrical Specification table	M = ± 20%	H: Horizontal V: Vertical

Mechanical Specifications



Vertical



Horizontal

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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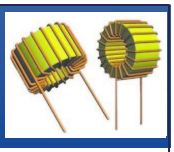
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Materials

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

Packaging

Part Number	Pcs / Tray	Trays / Carton	Pcs / Carton
ATCA-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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