

ECN/PCN No.: M1731

For Manufacturer

Product Description: Differential Mode Toroidal Coil Inductor	Abrakon Part Number / Part Series: ATCA-08	☐ Documentation only ☒ ECN ☐ EOL	☒ Series ☐ Part Number(s)
Affected Revision: C	New Revision: D	Application:	☐ Safety ☒ Non-Safety

Prior to Change:

Part Number	L(μ H)	Tolerance	DCR(Ω)	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_{DC}: max. 10% inductance drop from initial value

After Change:

Part Number	L(μ H)	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 Δ 40%.

Cause/Reason for Change:

Definition of IDC was incorrect and needed to be corrected.

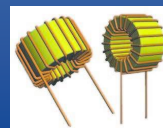
Change Plan

Effective Date: 6/8/2026	Additional Remarks: N/A
Change Declaration: There is no change to fit. Abracon recommends careful review of the changes to the IDC definition and its relationship to Isat and Irms.	
Issued Date: 6/8/2026	Issued By: Gerald Capwell Issued Department: Engineering
Approval:	Approval:

<i>Gerald Capwell</i> Director of Engineering	<i>Reuben Quintanilla</i> Quality Director	<i>Ying Huang</i> Purchasing Director
For Abracon EOL only		
Last Time Buy (if applicable): N/A	Alternate Part Number / Part Series: N/A	
Additional Approval:	Additional Approval:	Additional Approval:
Customer Approval (If Applicable)		
Qualification Status: ☐ Approved ☐ Not accepted <i>Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.</i>		
Customer Part Number:	Customer Project:	
Company Name:	Company Representative:	Representative Signature:
Customer Remarks:		

Brand	Affected PN	Discontinued/EOL PN	Added PN	Series	ECO#	Datasheet Link	ECN Notification Link
Abracon	ATCA-08-750M-H			ATCA-08	M1731	https://abracon.com/datasheets/ATCA-08.pdf	https://abracon.com/downloads/ECN-PCN/ECN-PCN-M1731-ATCA-08-Notification.pdf
Abracon	ATCA-08-131M-H			ATCA-08	M1731	https://abracon.com/datasheets/ATCA-08.pdf	https://abracon.com/downloads/ECN-PCN/ECN-PCN-M1731-ATCA-08-Notification.pdf
Abracon	ATCA-08-201M-H			ATCA-08	M1731	https://abracon.com/datasheets/ATCA-08.pdf	https://abracon.com/downloads/ECN-PCN/ECN-PCN-M1731-ATCA-08-Notification.pdf
Abracon	ATCA-08-251M-H			ATCA-08	M1731	https://abracon.com/datasheets/ATCA-08.pdf	https://abracon.com/downloads/ECN-PCN/ECN-PCN-M1731-ATCA-08-Notification.pdf
Abracon	ATCA-08-471M-H			ATCA-08	M1731	https://abracon.com/datasheets/ATCA-08.pdf	https://abracon.com/downloads/ECN-PCN/ECN-PCN-M1731-ATCA-08-Notification.pdf
Abracon	ATCA-08-681M-H			ATCA-08	M1731	https://abracon.com/datasheets/ATCA-08.pdf	https://abracon.com/downloads/ECN-PCN/ECN-PCN-M1731-ATCA-08-Notification.pdf
Abracon	ATCA-08-750M-V			ATCA-08	M1731	https://abracon.com/datasheets/ATCA-08.pdf	https://abracon.com/downloads/ECN-PCN/ECN-PCN-M1731-ATCA-08-Notification.pdf
Abracon	ATCA-08-131M-V			ATCA-08	M1731	https://abracon.com/datasheets/ATCA-08.pdf	https://abracon.com/downloads/ECN-PCN/ECN-PCN-M1731-ATCA-08-Notification.pdf
Abracon	ATCA-08-201M-V			ATCA-08	M1731	https://abracon.com/datasheets/ATCA-08.pdf	https://abracon.com/downloads/ECN-PCN/ECN-PCN-M1731-ATCA-08-Notification.pdf
Abracon	ATCA-08-251M-V			ATCA-08	M1731	https://abracon.com/datasheets/ATCA-08.pdf	https://abracon.com/downloads/ECN-PCN/ECN-PCN-M1731-ATCA-08-Notification.pdf
Abracon	ATCA-08-471M-V			ATCA-08	M1731	https://abracon.com/datasheets/ATCA-08.pdf	https://abracon.com/downloads/ECN-PCN/ECN-PCN-M1731-ATCA-08-Notification.pdf
Abracon	ATCA-08-681M-V			ATCA-08	M1731	https://abracon.com/datasheets/ATCA-08.pdf	https://abracon.com/downloads/ECN-PCN/ECN-PCN-M1731-ATCA-08-Notification.pdf

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(μ H)	Tolerance	DCR(Ω)	Isat (A)	Irms(A)	Dimension (mm) E (dia.)
		(%)	(max)	(typ)	(max)	(Nom)
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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 Δ 40%.

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



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Differential Mode Toroidal Coil Inductor



ATCA-08

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RoHS/RoHS II Compliant

MSL Level = 1

Part Identification

ATCA-08- -

Inductance Code

See Electrical Specification table

Tolerance

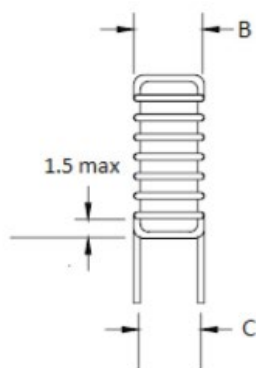
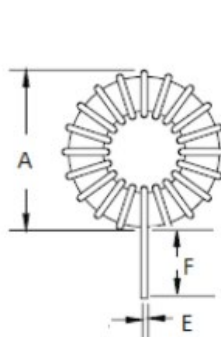
M = $\pm 20\%$

Packaging

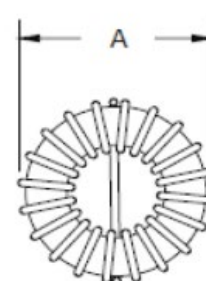
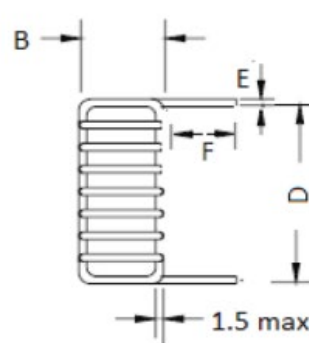
H: Horizontal

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

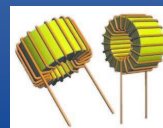


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MSL Level = 1

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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