

BOURNS

SPECIFICATION FOR APPROVAL

Title	Common Mode Choke		
Reference Design	TIDA-010938		
Bourns Part Number	047708	Rev	X0
Customer			
Customer Part Number		Rev	

Designed		
Drawn		19/12/2024
Checked		
Approved		

Customer Approval	
Name	
Position	
Date	



Factory

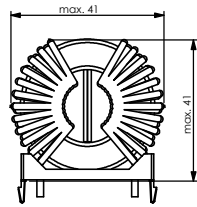
Preliminary

CHANGE HISTORY

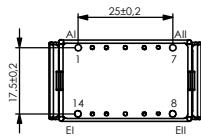
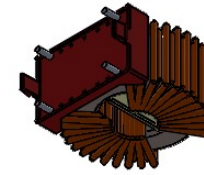
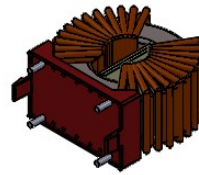
Revision	Date	Description of Change	Approved	Date

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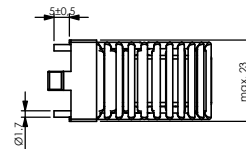
	Title Common Mode Choke		Tolerance (Unless Otherwise Specified) 0 < L < 5 : ±0.1 Angle 5 < L < 16 : ±0.3 ± 1° 16 < L < 50 : ±0.5	
	Project Number Mag-3001903			
TIDA-0109380	TIDA-010938	Bourns P/N 047708	Rev X0	Units: mm Scale: NTS 
Customer	Customer P/N TIDA-010938	Rev TIDA-010938	RoHS and REACH Compliant	Page: 2 of 5



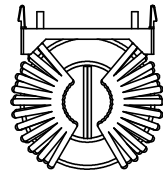
Front View



Bottom View




side View

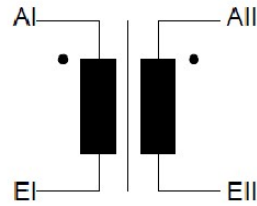


End View

Preliminary

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BOURNS	Title Common Mode Choke		Tolerance (Unless Otherwise Specified)	
	Project Number Mag-3001903		0 < L < 5 : ±0.1	Angle ± 1°
TIDA-0109380 TIDA-0109388	Bourns P/N 047708	Rev X0	Units: mm Scale: NTS	 <small>DRAWN IN THIRD ANGLE PROJECTION</small>
Customer	Customer P/N TIDA-010938	Rev TIDA-010938	RoHS and REACH Compliant	



Schematic

ELECTRICAL SPECIFICATION

No.	Item	Terminal	Value	Tolerance	Condition	Remarks
1	Inductance (0 ADC)	1 - 14	4 mH	±30%	50mV at 10kHz	
2	Inductance (0 ADC)	7 - 8	4 mH	±30%	50mV at 10kHz	
3	DC Resistance	1 - 3	12 mOhm	max.	25°C	
3	DC Resistance	1 - 3	12 mOhm	max.	25°C	
4	Turns Ratio	Pri : Sec	1:1			
5	Current		20A	max.		
6	Hi-Pot	W1 - W11	pass		1,5kVAC, 50Hz, 1s	no breakdown

GENERAL INFORMATION

1. This part is compliant with RoHS and REACH
2. Base material is Ultramid A3X2G7
3. Operating Temperature: -40°C to +125°C Including Temperature Rise
4. Storage Temperature: -40°C to +85°C
5. Basic insulation for a working voltage of 500V

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TIDA-0109380 TIDA-010938	Bourns P/N 047708	Rev X0	Units: mm Scale: NTS	DRAWN IN THIRD ANGLE PROJECTION
Customer	Customer P/N TIDA-010938	Rev TIDA-010938	RoHS and REACH Compliant	Page: 4 of 5

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