

# BOURNS

## SPECIFICATION FOR APPROVAL

Title	Common Mode Choke		
Reference Design	TIDA-010933		
Bourns Part Number	047690	Rev	X0
Customer			
Customer Part Number		Rev	

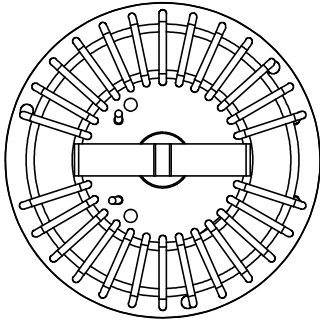
Designed		
Drawn		17/12/2024
Checked		
Approved		

Customer Approval	
Name	
Position	
Date	

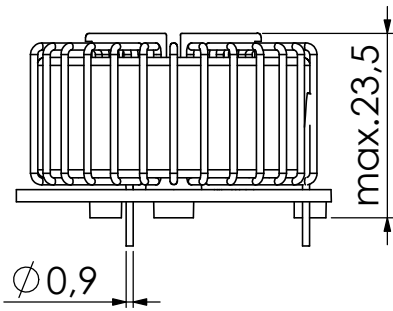
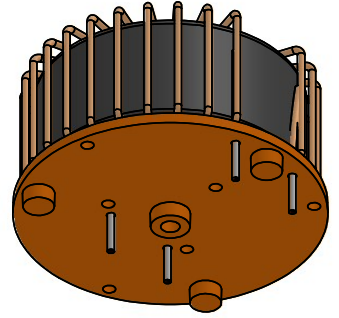
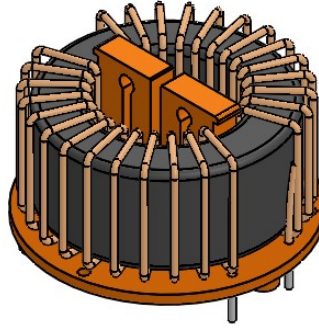
Factory

Preliminary

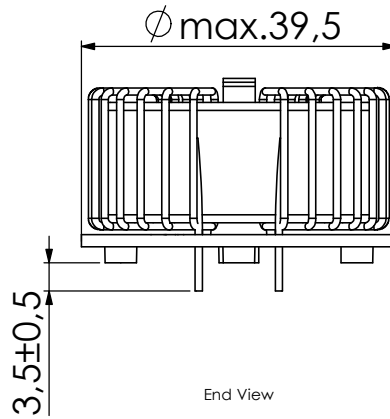




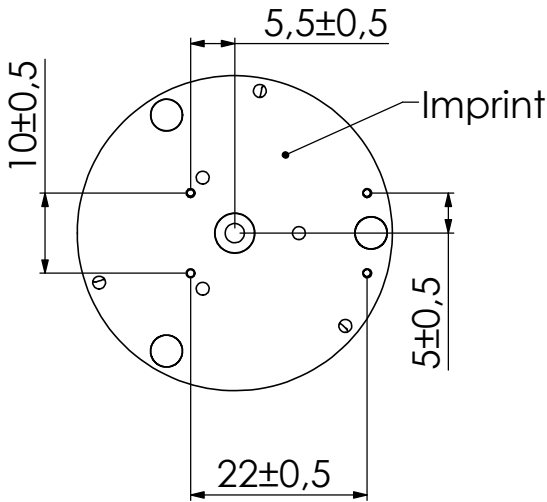
Top View



Front View





End View

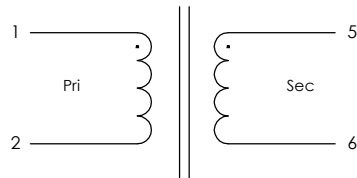


Bottom View

Preliminary

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	Title <b>Common Mode Choke</b>		Tolerance (Unless Otherwise Specified) 0 < L < 5 : ±0.1    Angle 5 < L < 16 : ±0.3    ± 1° 16 < L < 50 : ±0.5	
	Project Number Mag-3001565			
TIDA-0109330	Bourns P/N 047690	Rev X0	Units: mm Scale: NTS	 DRAWN IN THIRD ANGLE PROJECTION
Customer	Customer P/N TIDA-010933	Rev	RoHS and REACH Compliant	Page: 3 of 5



Schematic

**ELECTRICAL SPECIFICATION**

No.	Item	Terminal	Value	Tolerance	Condition	Remarks
1	Inductance (0 ADC)	A1 - E1	4,0mH	+50%/-30%	50mV at 10kHz	
2	Inductance (0 ADC)	A11 - E11	4,0mH	+50%/-30%	50mV at 10kHz	
3	DC Resistance	A1 - E1	26,5mOhm	max.		
4	DC Resistance	A11 - E11	26,5mOhm	max.		
5	Turns Ratio	W1 - W11	1:1			
6	Hi-Pot	W1 - W11	pass		1,65kVAC, 50Hz, 1s	No Breakdown
7	Current		6A	max.		
8	Leakage Ind.		35µH	Typ.	50mV at 10kHz	
9	SRF	W1	350kHz	Typ.		

**GENERAL INFORMATION**

1. This part is compliant with RoHS and REACH
2. Base and spacer material A3X2G7 Ultramid PA66
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 250V

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