

# BOURNS

## SPECIFICATION FOR APPROVAL

Title	PFC Inductor		
Reference Design	TIDA-010938		
Bourns Part Number	145453	Rev	X1
Customer			
Customer Part Number		Rev	

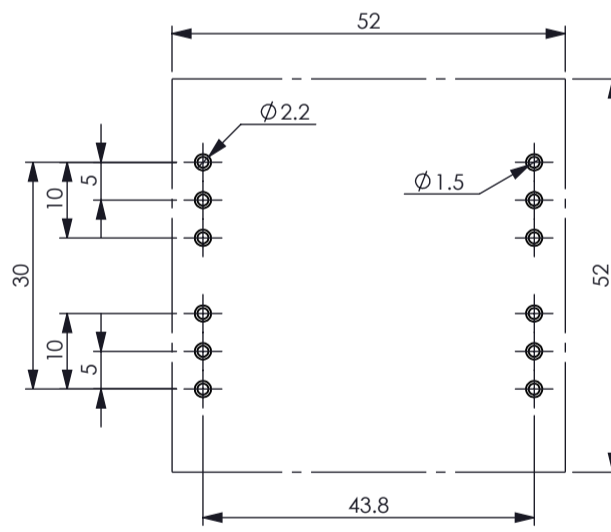
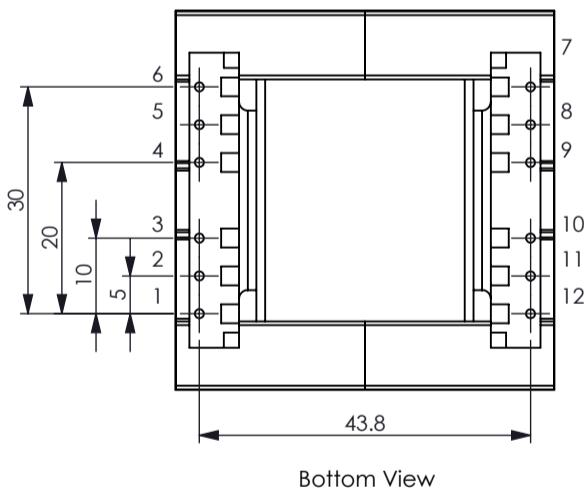
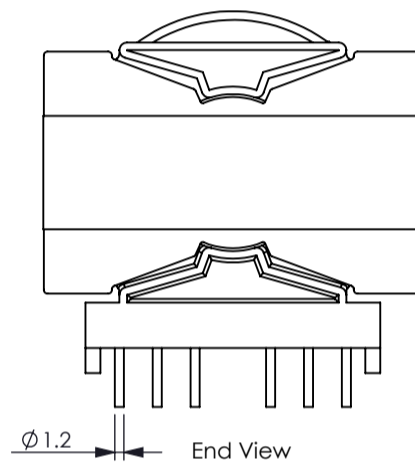
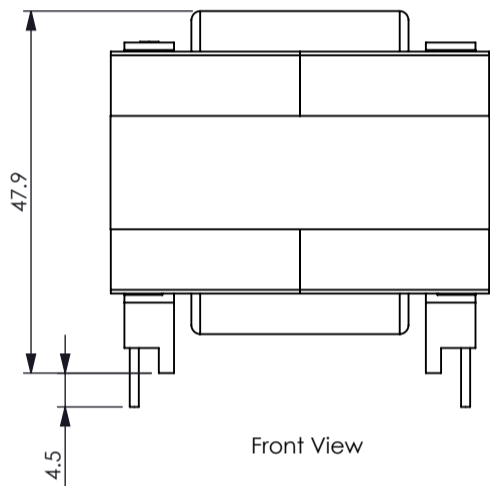
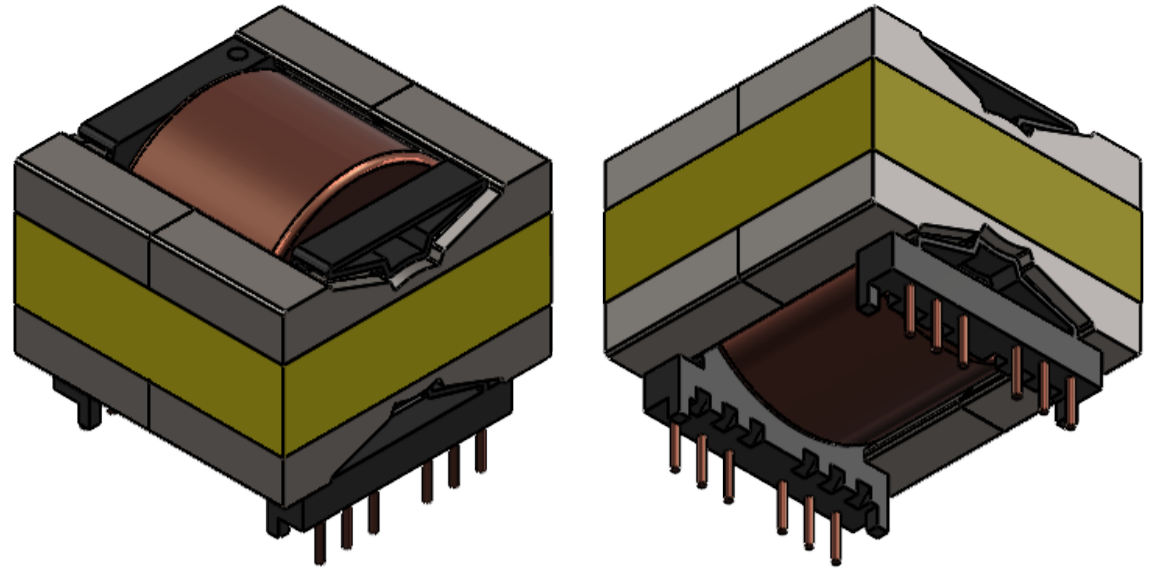
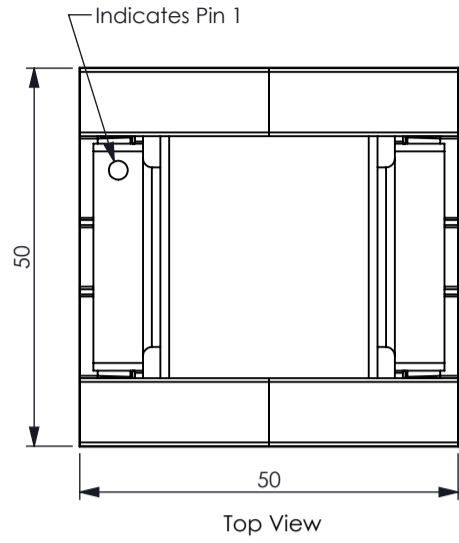
Designed		
Drawn	MD	06/Mar/2024
Checked		
Approved		

Customer Approval	
Name	
Position	
Date	

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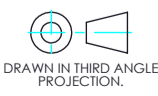
Preliminary

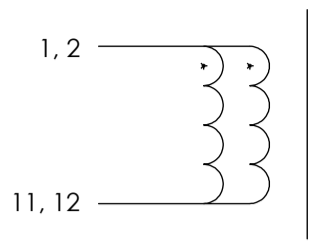




Preliminary

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<b>BOURNS</b>	Title <b>PFC Inductor</b>		Tolerance (Unless Otherwise Specified)	
	Project Number MAG-3001957		0 < L < 5 : ±0.1	Angle ± 1°
B181066 V2 D6743	Bourns P/N 145453	Rev X1	Units: mm Scale: NTS	 <small>DRAWN IN THIRD ANGLE PROJECTION.</small>
Customer	Customer P/N	Rev	RoHS and REACH Compliant	



Schematic

Pins 1 & 2 can be connected on the PCB  
 Pins 11 & 12 can be connected on the PCB

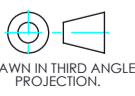
**ELECTRICAL SPECIFICATION**

No.	Item	Terminal	Value	Tolerance	Condition	Remarks
1	Inductance (0 ADC)	1, 2 - 11, 12	87 $\mu$ H	$\pm 10\%$	1V at 100kHz	
2	Saturation Current	1, 2 - 11, 12	35 A		20% Roll Off From Initial	
3	DC Resistance	1, 2 - 11, 12	13 m $\Omega$	$\pm 10\%$		

**GENERAL INFORMATION**

1. Operating Temperature: -40°C to +125°C Including Temperature Rise
2. Storage Temperature: -40°C to +85°C

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<b>BOURNS</b>	Title PFC Inductor		Tolerance (Unless Otherwise Specified) 0 < L < 5 : $\pm 0.1$ Angle 5 < L < 16 : $\pm 0.3$ $\pm 1^\circ$ 16 < L < 50 : $\pm 0.5$	
	Project Number MAG-3001957			
B181066 V2 D6743	Bourns P/N 145453	Rev X1	Units: mm Scale: NTS	 DRAWN IN THIRD ANGLE PROJECTION.
Customer	Customer P/N	Rev	RoHS and REACH Compliant	Page: 4 of 9

BOURNS

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<b>BOURNS</b>	Title PFC Inductor		Tolerance (Unless Otherwise Specified) 0 < L < 5 : ±0.1      Angle 5 < L < 16 : ±0.3      ± 1° 16 < L < 50 : ±0.5	
	Project Number MAG-3001957			
B181066 V2 D6743	Bourns P/N 145453	Rev X1	Units: mm Scale: NTS	 DRAWN IN THIRD ANGLE PROJECTION.
Customer	Customer P/N	Rev	RoHS and REACH Compliant	Page: 5 of 9