BOURIS

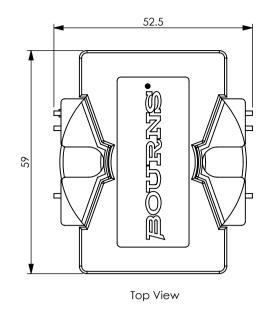
SPECIFICATION FOR APPROVAL

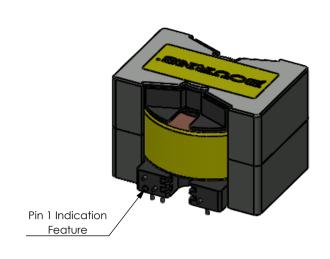
Title	PFC Inductor		
Reference Design	TIDA-01606		
Bourns Part Number	145814	Rev	X4
Customer		·	
Customer Part Number		Rev	

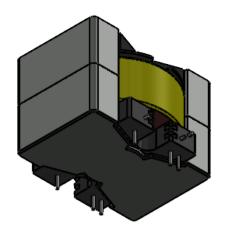
Designed		
Drawn	MD	01/Jul/2024
Checked		
Approved		

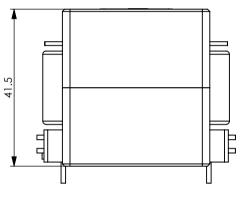
Customer Approval				
Name				
Position				
Date				

			СНА	NGE HISTORY				
Revision	Date		Descri	iption of Change		A	pproved	Date
X1	05/Jul/202	4	Modifications	s for Laboratory Sample				
X2	10/Jul/202	4	Bobbin Modifico	ation - Additional set of Pi	ns			
Х3	19/Jul/202	4	Update of E	Electrical Specification				
X4	26/Nov/202	24	Upda	te of DCR Value				
				TY OF BOURNS AND SH OR DEVICES WITHOUT EX				
2, 10,010101	/// ((101/)	J. J. L. O. 107	Title				Tolera	nce
	TT	NTC		PFC Inductor			(Unless Otherwi $0 < L < 5 : \pm 0.1$	Angle
BO	UK	TAD	Project Number				5 < L < 16 : ±0. 16 < L < 50 : ±0	
			MAG-300	1906				
			Bourns P/N		Rev		Units: mm	— —
	1108 V2	D6665	145814		X4		Scale: NTS	DRAWN IN THIRD ANGLE PROJECTION.
Customer			Customer P/N		Rev		RoHS and REACH	Page: 2 of 9
							Compliant	2 01 7

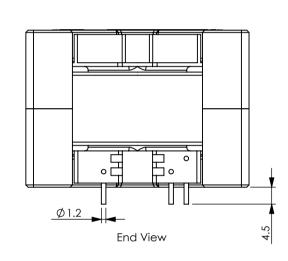


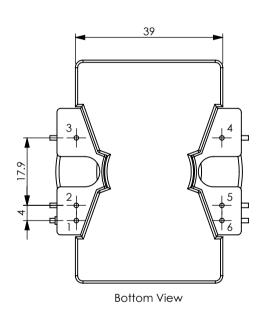


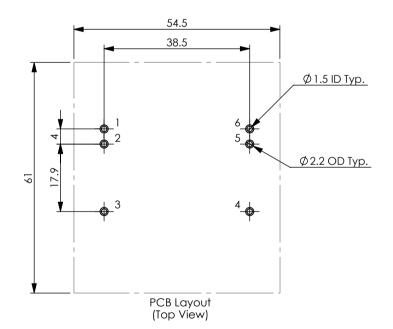




Front View



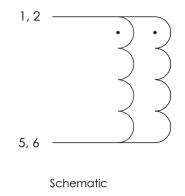




Note: Join Pins 1 and 2 on PCB Join Pins 5 and 6 on PCB

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BOURNS	Project Number MAG-3001906		Tolerance (Unless Otherwise Specified) 0 < L < 5: ±0.1 Angle 5 < L < 16: ±0.3 ± 1° 16 < L < 50: ±0.5	
	Bourns P/N	Rev	Units: mm	\bigcirc
B181108 V2 D6665	145814	X4	Scale: NTS	DRAWN IN THIRD ANGLE PROJECTION.
Customer	Customer P/N	Rev	RoHS and REACH Compliant	Page: 3 of 9



ELECTRICAL SPECIFICATION

No.	Item	Terminal	Value	Tolerance	Condition	Remarks
1	Inductance (0 ADC)	(1, 2) - (3, 4)	160 µH	±10%	1V at 100kHz	-
3	Saturation Current	(1, 2) - (3, 4)	30 A	-	30% Inductance Roll Off	-
4	DC Resistance	(1, 2) - (3, 4)	32.5 mΩ	typ.	-	-

GENERAL INFORMATION

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

2. Storage Temperature: -40°C to +80°C

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BOURNS	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-3001906			
	Bourns P/N	Rev	Units: mm	\oplus - \ominus
B181108 V2 D6665	145814	X4	Scale: NTS	DRAWN IN THIRD ANGLE PROJECTION.
Customer	Customer P/N	Rev	RoHS and REACH Compliant	Page: 4 of 9

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BOURNS	Project Number MAG-3001906		Tolerance (Unless Otherwise Specified) 0 < L < 5 : ±0.1 Angle 5 < L < 16 : ±0.3 ± 1° 16 < L < 50 : ±0.5	
	Bourns P/N	Rev	Units: mm	⊕ -⊖
B181108 V2 D6665	145814	X4	Scale: NTS	DRAWN IN THIRD ANGLE PROJECTION.
Customer	Customer P/N	Rev	RoHS and REACH Compliant	Page: 5 of 9