



SPECIFICATION



PART NAME: PFC CHOKE



Model NO. : 029E1-001



PART NO. : 30A-170uH



CUSTOMER : Texas Instruments



VERSION NO.:1.0

Orders placed by customers without signature (seal) shall be deemed as default documents		
DATE:		2019-07-09
DESIGNER	AUDITOR	APPROVER
Yu Qunhao	Wang Liwei	Wang Shiwei

Qingdao Yunlu Energy Technology Co.,LTD.

ADDRESS:West railway station LanCun town (Jimo) Qingdao City, Shandong, China.

TEL: 0532-82599910(CHINA); **FAX:** 0532-82593000

<http://www.Yunlu.com.cn/>

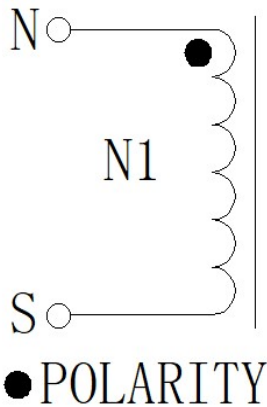
1. Subject Matter and Adaptation

- 1.1 This specification specifies the parameters of 30A -170uH PFC which are applied to the technical requirements of common mode choke for suppressing electromagnetic interference and the packaging requirements of inspection rules.
- 1.2 This specification is a normative document for the design, production and quality inspection of this product.
- 1.3 This specification is a normative document for the use of this product, please follow the usage requirements of the specification. When applying other occasions, please refer to its system characteristics and the performance of this product.

2. Appearance And Structure

- 2.1 There is no deformation or damage on the whole, main installation has no concavity and convexity, flat cable is neat, and paint layer is not damaged.
- 2.2 The nameplate shall be on the side of the mounting plate (see outline drawing). The nameplate shall be clearly visible and not easy to fall off or erase under high temperature conditions.

3. Schematic Diagram



4. Winding Construction

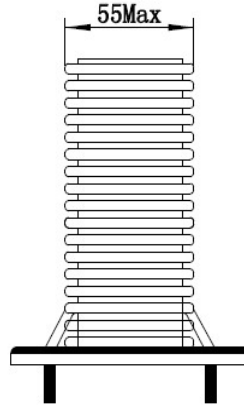
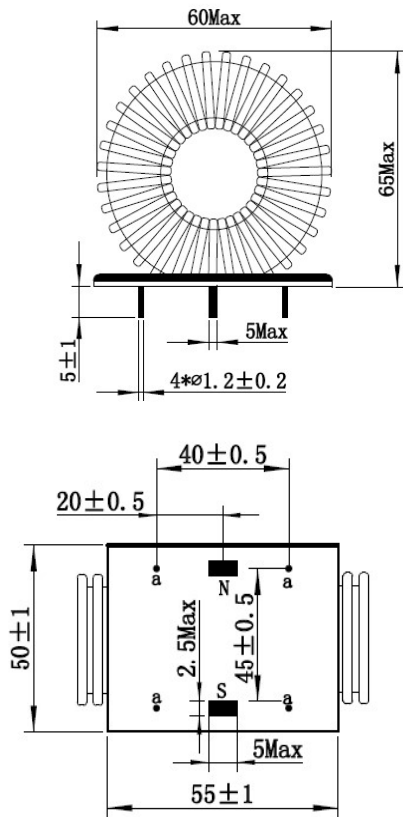
4.1 Winding Parameters

Winding	S---F		Wire Size	Number	Turns
N1	N	S	φ1.5mm	2	54±1

DESIGNER	AUDITOR	APPROVER	CUSTOMER	Texas Instruments	PART NAME	PFC CHOKE
Yu Qunhao	Wang Liwei	Wang Shiwei	PART NO.	30A-170uH	Model NO.	029E1-001
DWG.NO.			Qingdao Yunlu Energy Technology Co.,LTD.			


VERSION NO.:	1.0	PAGE	4/5
--------------	-----	------	-----

5. Dimension Diagram (unit:mm)

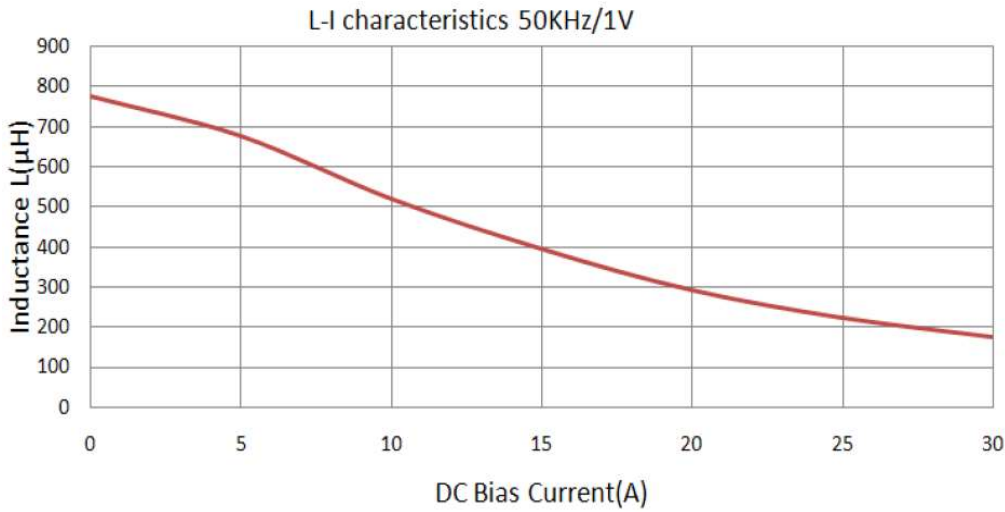


Remarks: a*4 is empty leg (no electrical connection); N and s are inductor pins.

6. Electric Characteristics

NO.	Paraminal	Test Condition	Measurement Values	Test Meter		
6.1	Rated Current	/	30A	/		
6.2	Rated Frequency	/	50KHz	/		
6.3	Inductance	Idc=30A F=50KHz、1V 20°C	≥170uH	TH2829		
6.4	DC Resistance	20°C	50mΩ Max	PC9A		
6.5	Insulation Resistance	500V DC 5S	≥100MΩ	LK2679D		
6.6	Withstanding Voltage	AC 2000V ≤1mA 5S	Pass No breakdown, flying fox	LK2674A		
DESIGNER	AUDITOR	APPROVER	CUSTOMER	Texas Instruments	PART NAME	PFC CHOKE
Yu Qunhao	Wang Liwei	Wang Shiwei	PART NO.	30A-170uH	Model NO.	029E1-001
DWG.NO.			 Qingdao Yunlu Energy Technology Co.,LTD.			

6.7 Characteristic Curve



7. Material List

NO.	Material Name	Material	Type	Supplier
01	Magnetic Core	FeSiAl FeSiAl	CASC467060 77439A7	YUNLUAMT Magnetics
02	Base	FR-4	/	Bohai
03	Winding	Copper	QZY-2/180℃ Φ1.5	Jingda Or Taiyi
04	Glue	116P	/	Better

8. Manner Of Packing

- 8.1 Products shall be packed in cartons, wooden cases or turnover boxes, and simulation measures shall be taken. The models and quantities shall be indicated on the boxes.
- 8.2 Packaged products can be transported by sea, land and air. Direct rain and snow should be avoided during transportation.
- 8.3 The packaged products shall be stored in a warehouse with an ambient temperature of -35℃-85℃, a relative humidity of not more than 80%, and no acid or other harmful gases around.

9. Environmental Protection Requirements

The product complies with RoHS requirements, and RoHS logo is stuck on the outside of the packing case.

DESIGNER	AUDITOR	APPROVER	CUSTOMER	Texas Instruments	PART NAME	PFC CHOKE
Yu Qunhao	Wang Liwei	Wang Shiwei	PART NO.	30A-170uH	Model NO.	029E1-001
DWG.NO.			Qingdao Yunlu Energy Technology Co.,LTD.			