

Specification for Approval

Customer:

Customer P/N:

EEC P/N:

LT-3532A-201MGN

Spec No.:

Version No.:

V0.1

Description:

Pulse Transfomer

100/1000 Base-T Available

Customer Approval		EEC Approval	
Inspected By:		Issued By:	Fuming Chen
Checked By:		Checked By:	Jerry Gu
Approved By:		Approved By:	Focus Wang
Approved Date:		Issued Date:	2024/12/20

Please Return One Copy to Us After Approved,TKS! (承认后请回寄一份,谢谢)

- Remark:
- Before use, please confirm whether this product is suitable for your design, Scientific only ensure products meet this specification.
 - This specification data change must be confirmed by both parties,any individual modification is invalid.
 - If customer placed orders without signing back this specification, it is regarded as recognition.



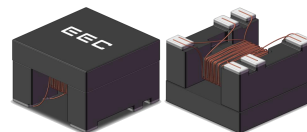
绵阳敦源电子科技有限公司
Mianyang Dunyuan Electronics Technology Co.,Ltd
地址： 四川省绵阳市高新区综合保税区
ADD: Comprehensive Bonded Zone, High-Tech Industrial Development Zone Mianyang, SiChuan

[illegible]

DESCRIPTION	EEC P/N	SPEC NO.:	VERSION NO.: V0.1
Pulse Transformer	LT-3532A-201MGN		PAGE: 1/6

1 Features And Benefits

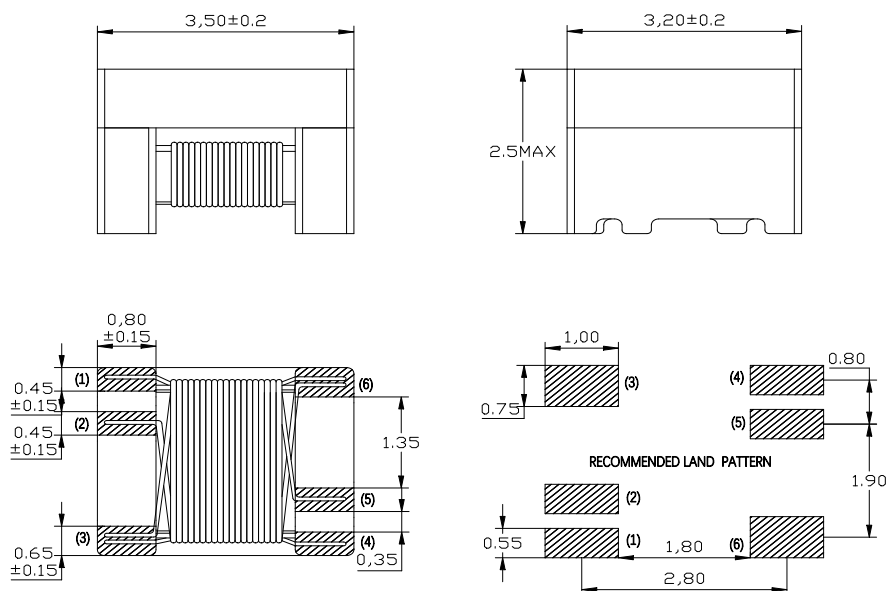
- LAN interfaces of various devices including network devices, communication equipment, digital consumer electronics, etc
- Compliant With Ethernet 1G Base-T
- Improved Return Loss And Cross Talk Properties
- High-Quality Product That Uses Auto Winding
- Operating temperature -40°C to +85°C
- 1200Vrms/1mA/60s Hi-pot Support
- Super Small Size - available in 3532 Size
- RoHS Compliant



2 Electrical Specifications @ 25°C

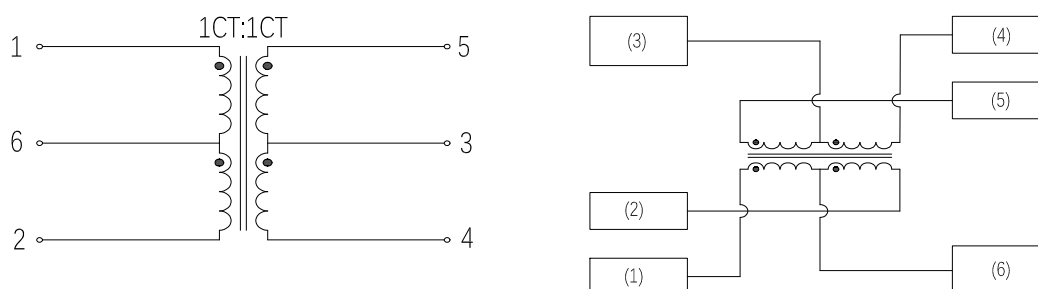
1G Base-T Series							
Part Number	OCL (μH)	DCR (Ω)	Insertion Loss (dB)		Return Loss (dB)		PoE Rating
	Min	Max	Max		Min		
	100KHz,0.1V		0.5- 1MHz	1- 125MHz	1-40MHz	40-100MHz	
LT-3532A-201MGN	200 @8mA	3.00	-1.2	-0.2-0.002*f^1.4	-16	-10+20log(f/80)	NON-PoE

3 Dimensions (mm)& recommend layout

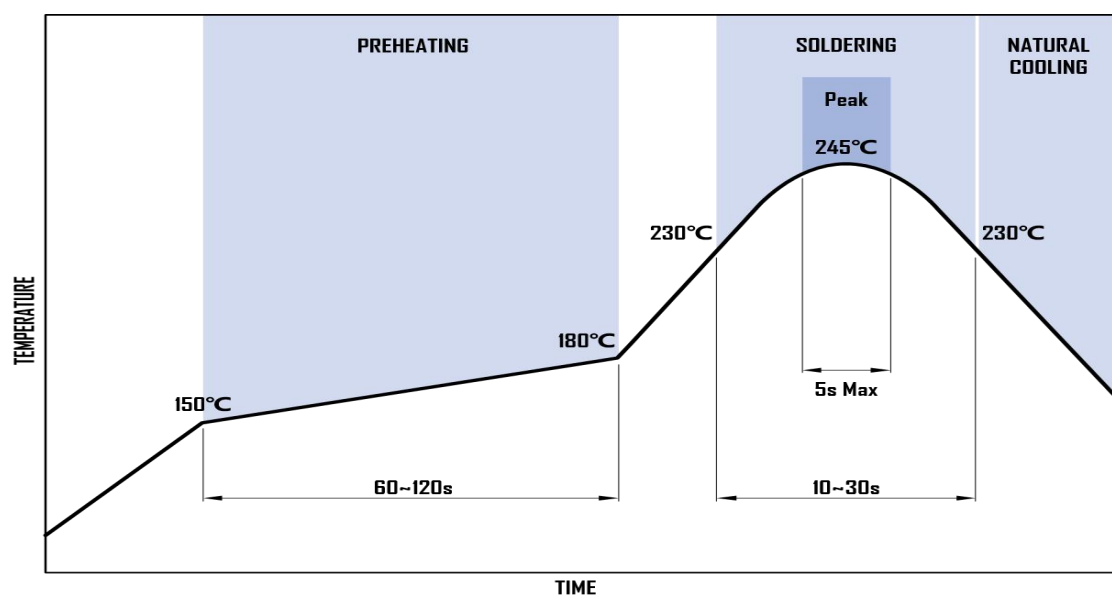


DESCRIPTION	EEC P/N	SPEC NO.:	VERSION NO.: V0.1
Pulse Transfomer	LT-3532A-201MGN		PAGE: 2/6

4 Schematics

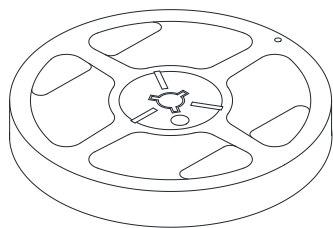
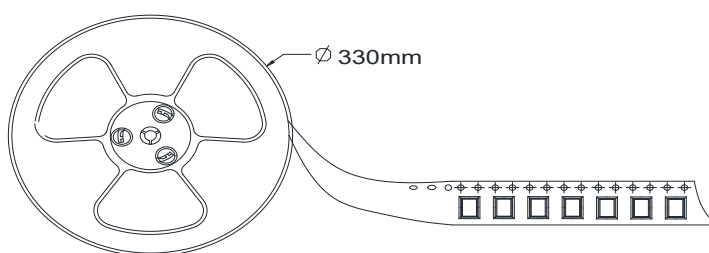
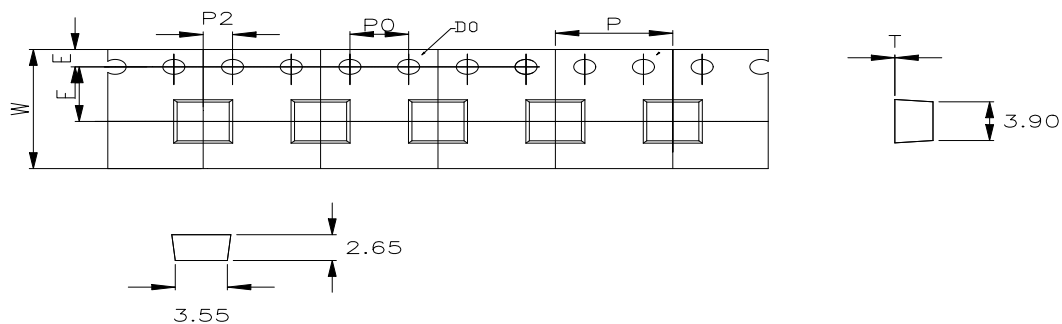


5 Recommended Reflow Profile

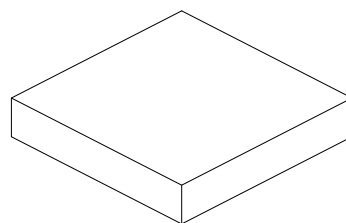


DESCRIPTION	EEC P/N	SPEC NO.:	VERSION NO.: V0.1
Pulse Transformer	LT-3532A-201MGN		PAGE: 3/6

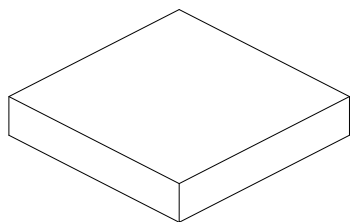
6 Packaging specification



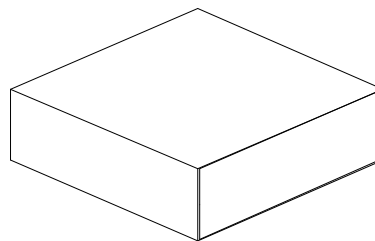
Four Reel



One Inner Carton



Five Inner Carton



One Export Carton

Package Quantity:
 One Reel=2000 Pcs
 One Inner Carton=2000*4=8000 Pcs
 One Export Carton=8000*5=40000 Pcs

DESCRIPTION	EEC P/N	SPEC NO.:	VERSION NO.: V0.1
Pulse Transformer	LT-3532A-201MGN		PAGE: 4/6

7 Reliability test

NO.	Test Item	Standard Reference	Test Condition
1	High temperature storage test	IPC/JEDEC J-STD-020D	Temperature: 125±2℃ Time: 168 hours Measurement at 24±4 hours after test conclusion.
2	Low temperature test	IPC/JEDEC J-STD-020D	Temperature: -40±2℃ Time: 168 hours Measurement at 24±4 hours after test conclusion.
3	Constant temperature and constant humidity test	GB/T 2423.3(IEC 60068-2-78)	Temperature: 40±2℃ / humidity:93±2%RH Time: 168 hours Measurement at 24±4 hours after test conclusion.
4	High temperature and high humidity test	GB/T 2423.50	Temperature: 85±2℃ / humidity:85±2%RH Time: 168 hours Measurement at 24±4 hours after test conclusion.
5	Thermal shock test	IPC/JEDEC J-STD-020D	First -40±5℃ for 30±2 minutes, last 125℃ 30±2 minutes as 1 cycle. Total 100 cycles.
6	Salt spray test	GB/T2423.17(IEC 60068-2-11)	Concentration : (5±0.1) % PH : 6.5 ~ 7.2 Temperature: 35 ± 2 ℃ Time: 24 hours
7	Solder ability test	GB/T 2423.28(IEC 60068-2-20)	Preheating: 150±5℃, 60 seconds Immerse the terminal in flux for 5 seconds.then dip the terminal into a soldering bath of 245±5℃ for 2±0.5 seconds.
8	Drop test	GB/T 2423.8(IEC 60068-2-32)	Floor should be hard,strong,concrete. Height:0.8m. Test 6 surfaces , 3 ridges and 1 corner of Test-box.
9	Vibration test	GB/T 4857.7	Apply frequency 10~100~10Hz 1.52mm±10% amplitude in each of perpendicular direction for 20 minutes. Total 12 cycles
10	Soldering resistance test	GB/T 2423.50	Preheating: 150±5℃, 60~120 seconds dip the terminal into a soldering bath of 260±5℃ for 10±3 seconds with 3 times.
11	Terminal strength	MIL-STD-202	PCB specification: 100mm X 40mm. 4 layer board Thickness: 1.60 + / - 0.2 mm 1、>0805 inch/2012mm : 9.8N (1kg) 2、<=0805 inch/2012mm: 4.9N (0.5kg)
12	Plate bending test	MIL-STD-202	PCB specification: 100mm X 40mm. 4 layer board Thickness: 1.60 + / - 0.2 mm Displacement: 2mm Hold time: 60±1s

DESCRIPTION	EEC P/N	SPEC NO.:	VERSION NO.: V0.1
Pulse Transfomer	LT-3532A-201MGN		PAGE: 5/6



REMINDERS

- The best assembly quality guarantee period of product: 12 months (From shipment date)
Storage condition : seal in packaging, (temperature: 5 to 40°C, humidity: 10 to 75% RH or less).
- If taking out for use, the remaining products should be sealed in plastic bags and preserved in accordance with the above conditions, to avoid oxidation of electrodes and affect soldering status.
- Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).
- Before soldering, be sure to preheat components.
The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.
- Always handle products with care to avoid damage.
- Do not touch electrodes with bare hands directly, as oil secretions may inhibit soldering.
Always ensure optimum conditions for soldering.
- Soldering corrections after mounting should be within the range of the conditions determined in the specifications. If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.
- Use a wrist band to discharge static electricity in your body through the grounding wire.
- Do not expose the products to magnets or magnetic fields.
- Do not use for a purpose outside of the contents regulated in the delivery specifications.
- Do not use for Automotive application.

DESCRIPTION	EEC P/N	SPEC NO.:	VERSION NO.: V0.1
Pulse Transformer	LT-3532A-201MGN		PAGE: 6/6