

APPROVAL SHEET

To :

Customer P/N :

UDE P/N : L18T010-3

Description : 1000 Base -T

Quad Ports LAN Filter

Meet IEEE802.3at standard



RoHSHF

Halogen
Free

Spec No.
L1821001-00

Update Date
2021/1/28

Revision
A

Approved	Checked	Prepared



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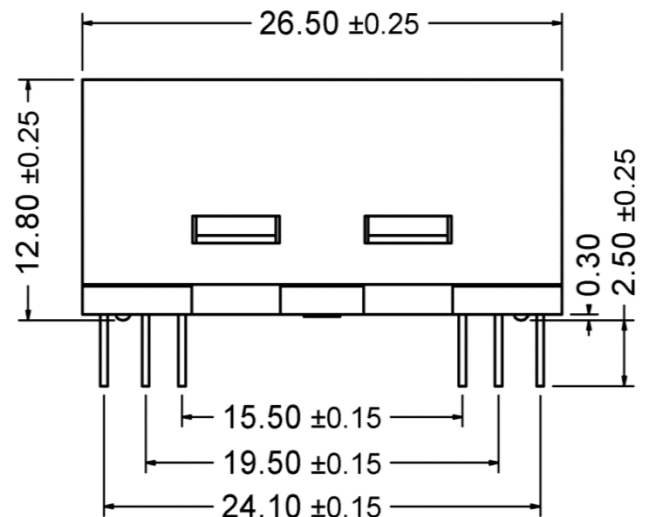
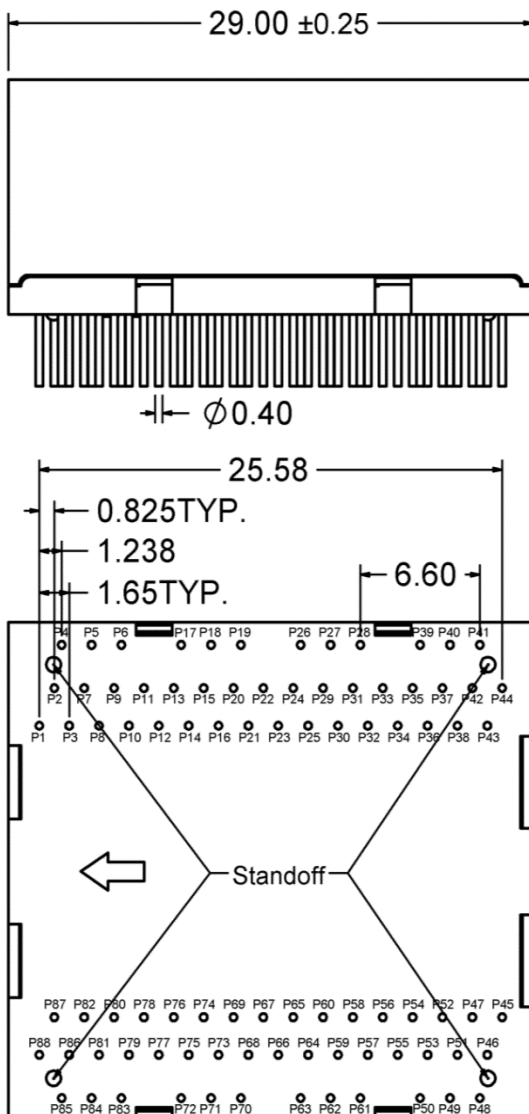
1. MECHANICAL DIMENSION

1.1 Product Dimension (Unit mm)

General Tolerance : X.X : ± 0.25
 X.XX : ± 0.13

UDE

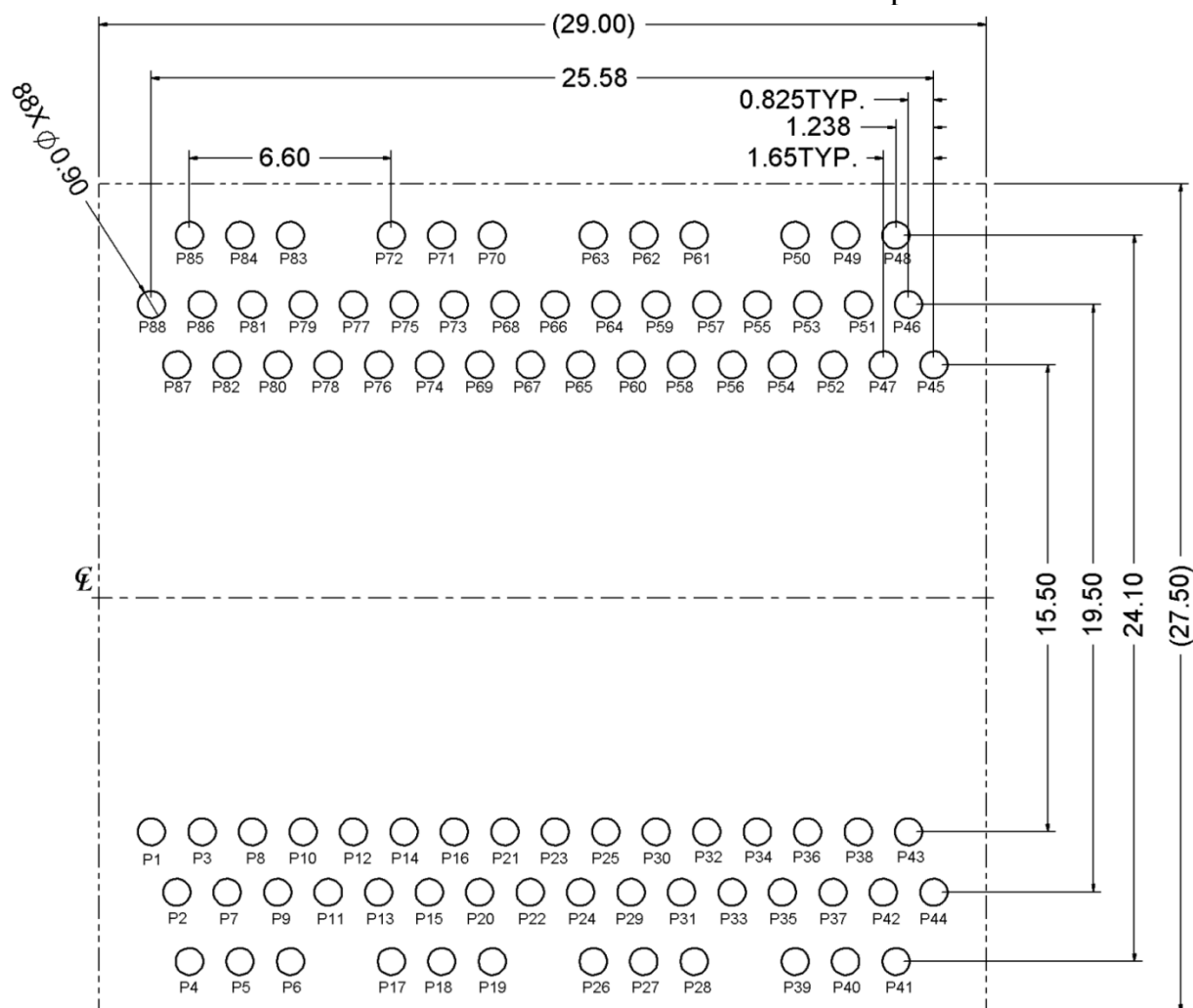
L18T010-3
 DATE CODE



1.2 Recommended PCB Layout (Unit mm)

Component Side of Board

All dimension tolerances are $\pm 0.08\text{mm}$ unless otherwise specified



1.3 Order Information

L 1 8 I 010 - 3
A B C D E F

A、Filter

B、DIP

C、88PIN

D、Operating Temperature :-40°C to +85°C

E、Product Numbering

F、PoE Plus

2. SPECIFICATION

2.1 Designed for Ethernet 1000 Base-T,full Quad ports applications.

2.2 Supports 16 pairs of category 5 UTP cable.

2.3 Cable interface for isolation and low common mode emissions.

2.4 Design to meet IEEE 802.3at with 720mA balanced current.

2.5 Compliant with RoHS&Halogen Free requirements.

2.6 Operating and Storage Temperature

Operating Temperature : -40°C to +85°C

Storage Temperature : -40°C to +85°C

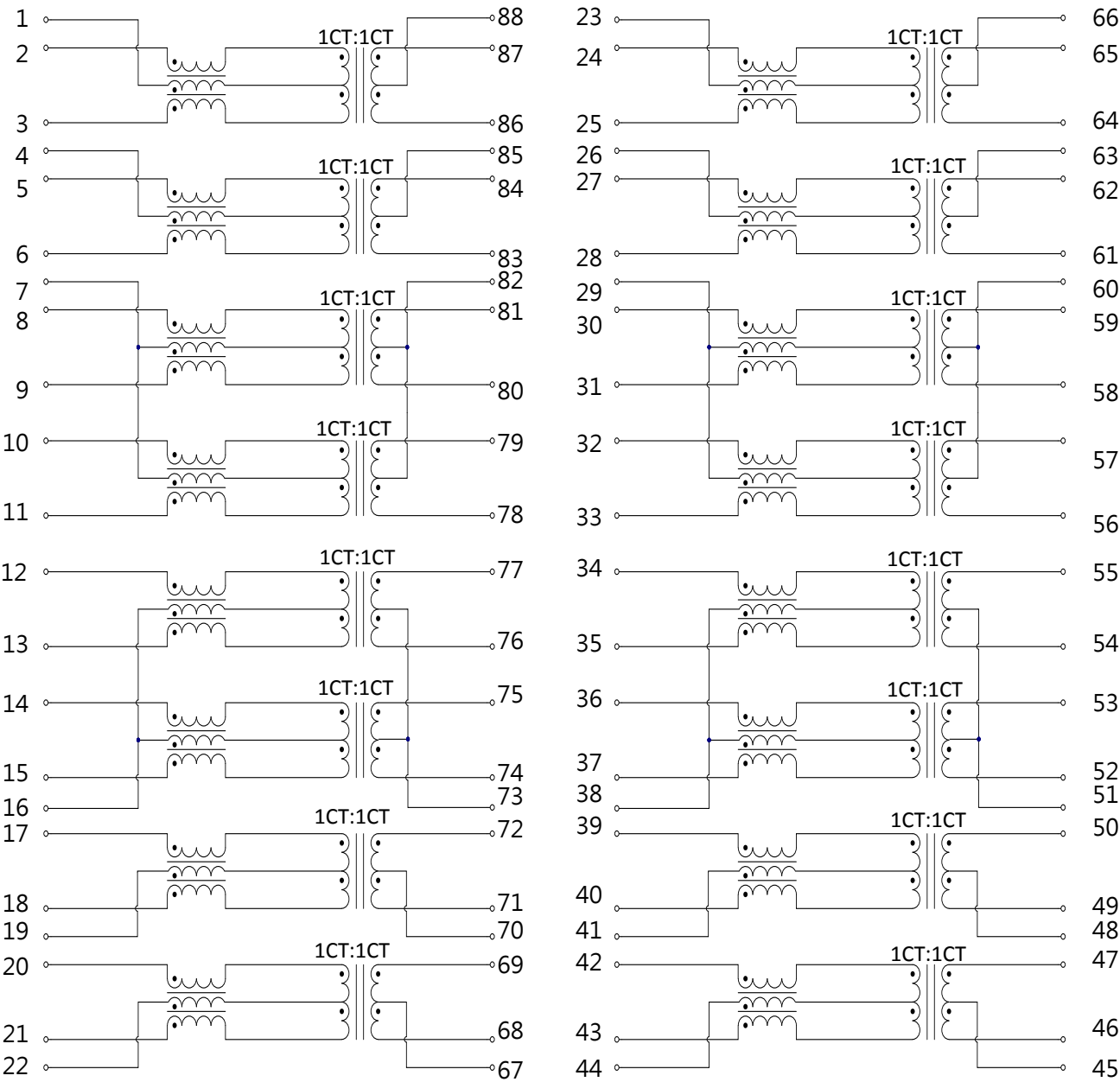
2.7 Packing Information

17 pcs finished goods per Tube

63 Tubes(1071 pcs finished goods) per master carton.

3. ELECTRICAL CHARACTERISTICS

3.1 Schematic



3.2 Electrical Specifications @25°C

Type : Balance low pass 100Ω impedance

Insertion loss : 1~100 MHz -1.0dB max.

Return loss : 1~30 MHz -18dB min. load 100Ω

30~60MHz -14dB min. load 100Ω

60~80MHz -12dB min. load 100Ω

80~100MHz -10dB min. load 100Ω

3.3 DCMR

@ 30 MHz -40dB min.

@ 60 MHz -35dB min.

@ 100 MHz -30dB min.

3.4 Cross Talk

@ 30 MHz -40dB min.

@60 MHz -35dB min.

@ 100 MHz -30dB min.

3.5 Inductance

@ 100KHz, 0.1V, 11mA DC BIAS 350uHMin

3.6 HiPot Test

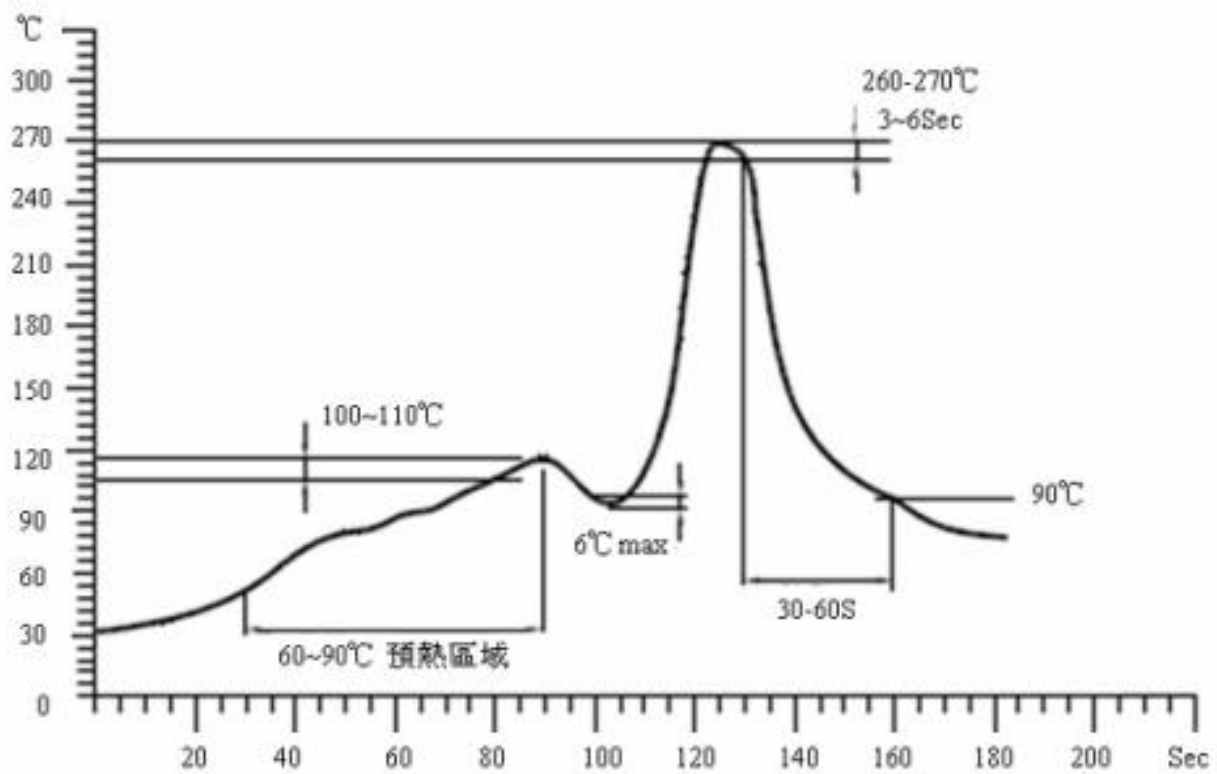
@ 1500 Vrms

3.7 Turns Ratio

@ 1:1±5%

4. DIPPING TEMPERATURE PROFILE

Recommend Wave Soldering Curve:



5. Revision History

[illegible]