

# Specification for Approval

**Customer:** \_\_\_\_\_

**Customer P/N:** \_\_\_\_\_

**EEC P/N:** AC-3225B-U0 Series

**Spec No.:** \_\_\_\_\_

**Version No.:** V0.1

**Description:** Automotive Common Mode Choke

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

| Customer Approval |  | EEC Approval |               |
|-------------------|--|--------------|---------------|
|                   |  |              |               |
| Inspected By:     |  | Issued By:   | Fuming Chen   |
| Checked By:       |  | Checked By:  | Mingrui, Song |
| Approved By:      |  | Approved By: | Focus Wang    |
| Approved Date:    |  | Issued Date: | 2022/11/12    |

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

## Remark:

1. Before use, please confirm whether this product is suitable for your design, Scientific only ensure products meet this specification.
2. This specification data change must be confirmed by both parties,any individual modification is invalid.
3. 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

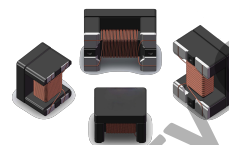
ADD: Comprehensive Bonded Zone, High-Tech Industrial Development Zone Mianyang, SiChuan

[illegible]

|                   |                    |           |                   |
|-------------------|--------------------|-----------|-------------------|
| DESCRIPTION       | EEC P/N:           | SPEC NO.: | VERSION NO.: V0.1 |
| Common Mode Choke | AC-3225B-U0 Series |           | PAGE: 1/4         |

## 1 Features And Benefits

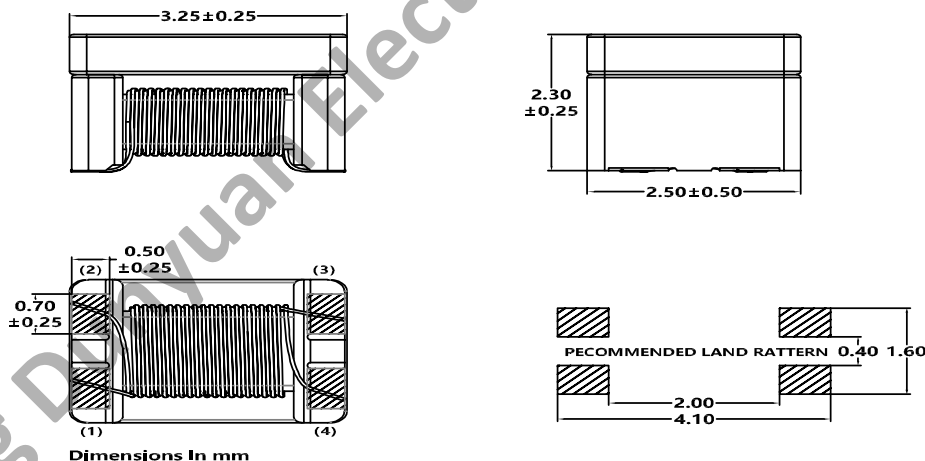
- Suppression of common mode noise without attenuating the signal
- Supports CAN-Bus, A2B and other IVN high speed differential signal lines (LVDS) for Automotive and Industrial use including PLC data lines
- Passes IEC6228-3 CLASS 3 performance and CiA 110
- High Common Mode Impedance at 10MHz
- Meets AEC-Q200 Requirement
- R&D and Factory IATF-16949 Certified
- Operating temperature -55°C to +150°C
- Rated Voltage 80v Max



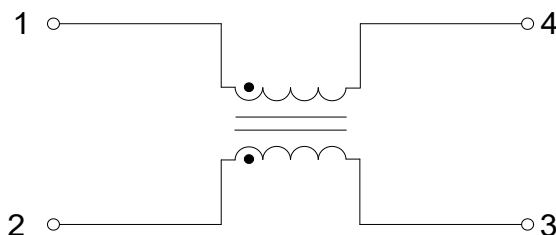
## 2 Electrical Specifications @ 25°C

| Part Number    | Common Mode Impedance (10MHZ) |      | Inductance (uH)<br>+50/-30% | RDC (Ω)Max | Leakage Inductance (nH) typ | Isolation Resistance (MΩ) Min | Rated Current (mA) Max | Rated Voltage (V) Max |
|----------------|-------------------------------|------|-----------------------------|------------|-----------------------------|-------------------------------|------------------------|-----------------------|
|                | ΩMin                          | Ωtyp |                             |            |                             |                               |                        |                       |
| AC-3225B-110U0 | 300                           | 550  | 11                          | 0.8        | 50                          | 10                            | 300                    | 80                    |
| AC-3225B-220U0 | 500                           | 1100 | 22                          | 1.0        | 70                          | 10                            | 250                    | 80                    |
| AC-3225B-510U0 | 1000                          | 2600 | 51                          | 1.6        | 130                         | 10                            | 200                    | 80                    |
| AC-3225B-101U0 | 2200                          | 5100 | 100                         | 4.9        | 180                         | 10                            | 150                    | 80                    |

## 3 Dimensions (mm)& recommend layout

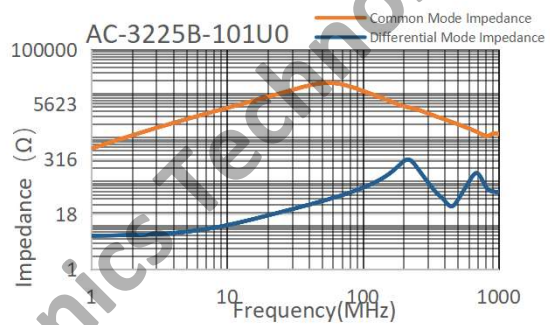
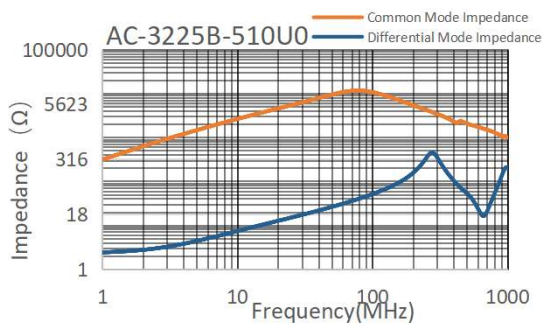
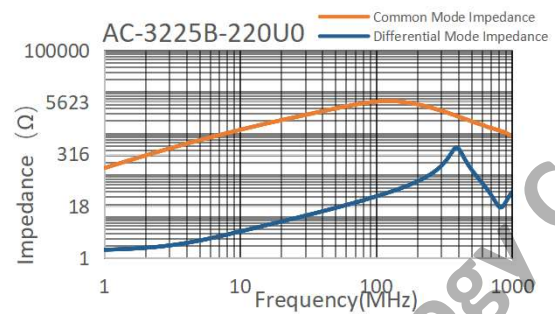
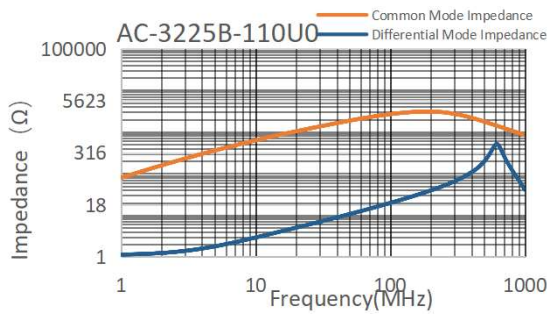


## 4 Schematics

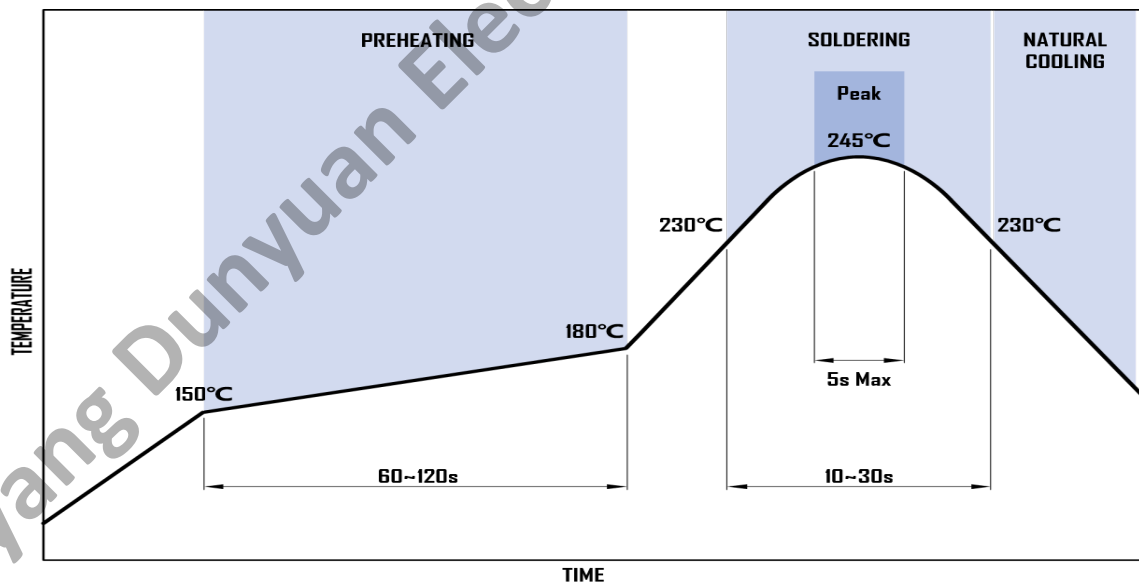


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## 5 Impedance VS. Frequency

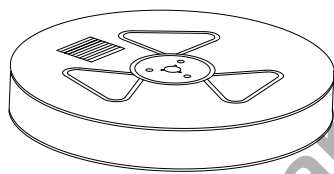
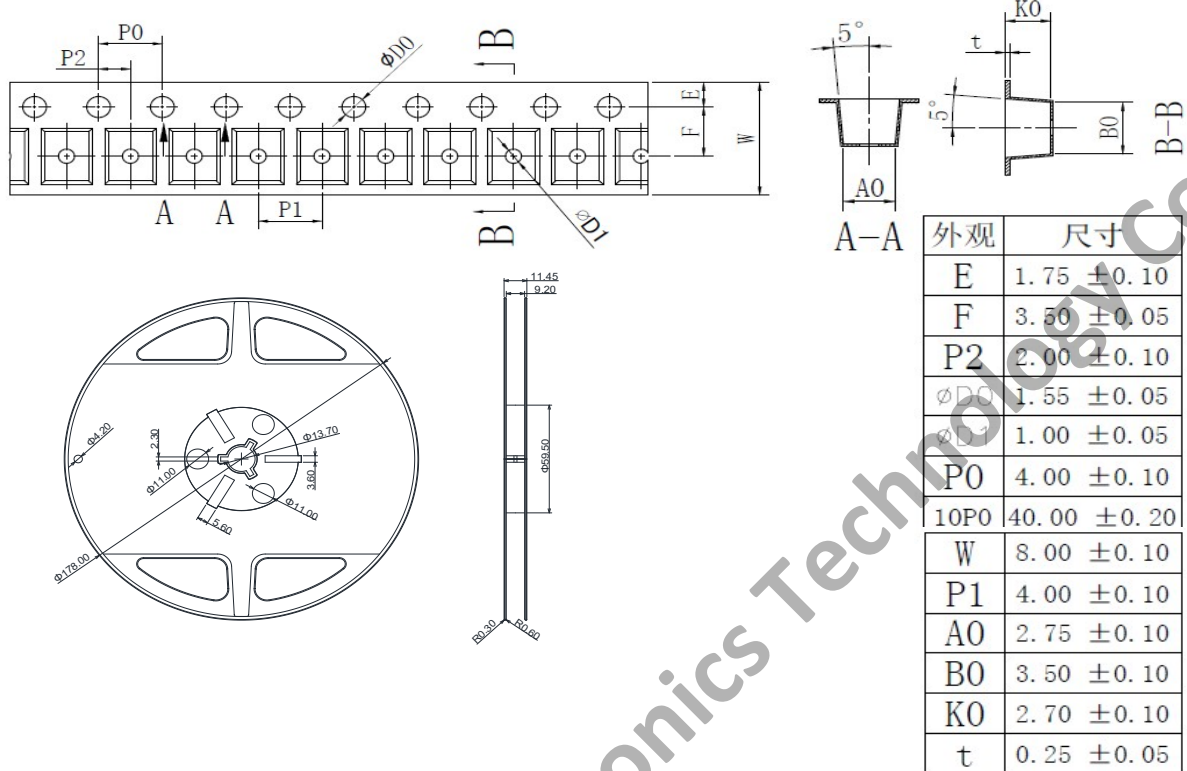


## 6 Recommended Reflow Profile

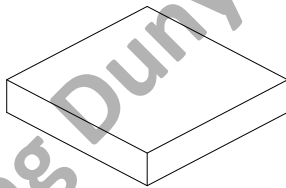


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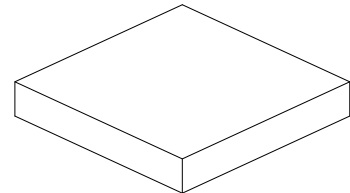
## 7 Packaging specification



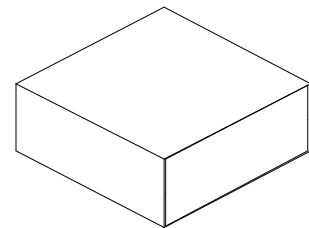
Four Reel



Five Inner Carton



Inner Carton



Export Carton

Package Quantity:

One Reel=1500 Pcs

One Inner Carton=1500\*4=6000 Pcs

One Export Carton=6000\*5=30000 Pcs

|                   |                    |           |                   |
|-------------------|--------------------|-----------|-------------------|
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