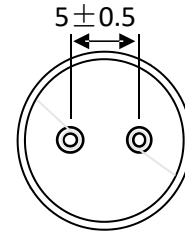
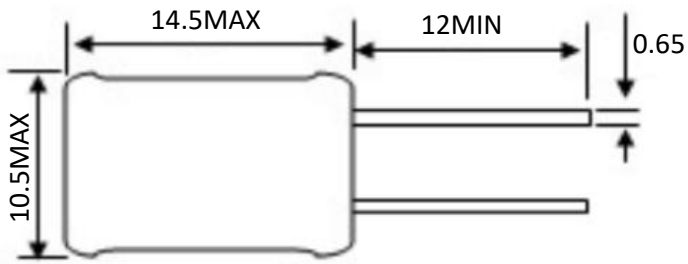


● **Dimension & Appearance (Unit:mm)**



● **Packing method**



| Minimum packing method & packing size |                |                 |
|---------------------------------------|----------------|-----------------|
| Number of volumes                     | Total quantity | Carton size     |
| 1 Bag                                 | 300pcs         | No packing case |

● **Material list**

| Item | Material Name          | Material Spec                     |  |
|------|------------------------|-----------------------------------|--|
| 1    | Magnetic materials     | MgO DR2W9*12 B4 F7 P5 CP0.65*17.5 |  |
| 2    | Enameled wire          | 2UEW 155°C                        |  |
| 3    | Tin                    | Environment-friendly unleaded     |  |
| 4    | Heat shrinkable casing | Black UL                          |  |
| 5    |                        |                                   |  |
| 6    |                        |                                   |  |
| 7    |                        |                                   |  |
| 8    |                        |                                   |  |
| 9    |                        |                                   |  |
| 10   |                        |                                   |  |

**● Electrical characteristic**

L: 330±10% AT 1 (KHz) 0.25 V

DCR: 407 (mΩ)MAX AT 25 °C

IDC: 0.3 (A)MAX AT 1 (KHz) 0.25 V

|                   | Inductance & Tolerance<br>(UH) | Test Freq<br>(KHz) | Test Vol<br>(V) | DC Resistance Max<br>(mΩ)MAX | Rated DC Current<br>(A)MAX |
|-------------------|--------------------------------|--------------------|-----------------|------------------------------|----------------------------|
| Testing Standards | 330±10%                        | 1                  | 0.25            | 407                          | 0.3<br>(≥90% Ls)           |
| 1                 | 314.5                          | 1                  | 0.25            | 339.20                       | OK                         |
| 2                 | 313.3                          | 1                  | 0.25            | 336.40                       | OK                         |
| 3                 | 314.2                          | 1                  | 0.25            | 338.10                       | OK                         |
| 4                 | 315.3                          | 1                  | 0.25            | 339.20                       | OK                         |
| 5                 | 313.7                          | 1                  | 0.25            | 339.40                       | OK                         |
| 6                 | 315.0                          | 1                  | 0.25            | 337.50                       | OK                         |
| 7                 | 311.7                          | 1                  | 0.25            | 338.40                       | OK                         |
| 8                 | 313.4                          | 1                  | 0.25            | 341.20                       | OK                         |
| 9                 | 313.4                          | 1                  | 0.25            | 337.80                       | OK                         |
| 10                | 312.5                          | 1                  | 0.25            | 337.70                       | OK                         |
| X                 | 313.7                          |                    |                 | 338.49                       |                            |

**● Reliability Testing Items**

| No. | Items                          | Requirements   | Test Methods and Remarks  |
|-----|--------------------------------|--|---|
| 1   | Operating Temperature Range    | -40°C ~ +105°C   | Including self-heating temperature rise.  |
| 2   | Soldering Resistance           | 1.No visible mechanical damage<br>2.Inductance change:within ±10%  | Dip pads in flux and dip in solder pot (96.5sn/3.0Ag/0.5Cu) at 260±5°C for 10±1 seconds   |
| 3   | Solderability                  | 90%or more of electrode area shall be coated by new solder   | Dip pads in flux and dip in solder pot (96.5sn/3.0Ag/0.5Cu) at 260±5°C for 5±1 seconds  |
| 4   | Insulation Resistance          | ≥100MΩ   | 100V DC between inductor coil and core for 60 seconds   |
| 5   | Component Adhesion (Push test) | ≥2.0kgf  | Inductors shall be subjected to 260±5°C for 20±5sec Soldering in the base whit 0.3mm solder.And then aplomb electrode wayplus tax 2.0kgf for ten seconds. |
| 6   | Over loading                   | 1.There shall be no case deformation or change in appearance<br>2.The electrical characteristics of inductor to meet the requirements of spec. | Apply twice as rated current for five minutes between inductor terminals,direct current error ±2%   |
| 7   | Temperature change             | 1.There shall be no case deformation or change in appearance<br>2.Inductance shall not change more than ±10%.                                  | +105°C 1 hour←→-40°C 1 hour 5 Cycles,Inductors are to be tested after 1 hour at room temperature  |
| 8   | High temperature               | 1.There shall be no case deformation or change in appearance<br>2.Inductance shall not change more than ±10%.                                  | Inductors shall be subjected to+105±5°C for 96±2 hour,Inductors are to be tested after one hour at room temperature                                       |
| 9   | Low temperature                | 1.There shall be no case deformation or change in appearance<br>2.Inductance shall not change more than ±10%.                                  | Inductors shall be subjected to-40±5°C for 96±2 hour,Inductors are to be tested after one hour at room temperature  |
| 10  | Life                           | 1.There shall be no case deformation or change in appearance<br>2.Inductance shall not change more than ±10%.                                  | Inductors shall be store at+105±5°C for 1000 hours with rated current applide, Normal temperature test  |

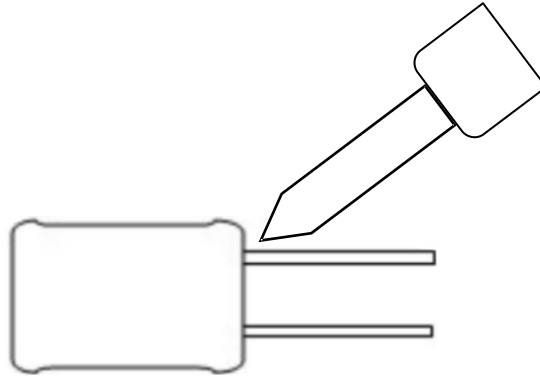
## ● Recommend Soldering Conditions

**Applicable soldering process to the products is reflow soldering.**

### Soldering Iron

Reworking with Soldering Iron must preheating at 150°C for 1 minute is required, and do not directly touch the core with the tip of the soldering iron. The reworking soldering conditions are as follows:

- ① Temperature of soldering iron tip: 350°C;
- ② Soldering iron power output: 30W max.
- ③ Diameter of soldering iron end: 1.0mm max.
- ④ Soldering time: within 3 sec.



## ● Storage Requirements

### ( 1 ) Storage Period

To maintain the solderability of terminal electrodes and to keep the packing material in good condition, product should be used within 6 months from the time of delivery. And the solderability of products electrodes may decrease as time passes, so in case of storage over 6 months, solderability shall be checked before actual usage.

### ( 2 ) Storage Conditions

( 1 ) Store products in a warehouse in compliance with the following condition:

Temperature: - 10 to +40°C Humidity: 30~70%RH

- (2) Do not subject products to rapid changes in temperature and humidity.
- (3) Do not store the products in chemical atmosphere such as one containing sulfurous acid gas or alkaline gas, that will causes poor solderability and corrosion of inductors.
- (4) Do not store products in bulk packaging to prevent collision among inductors which causes core wire breakage.chipping and
- (5) Store products on pallets to protect from humidity, dust, etc.
- (6) Avoid heat shock, vibration, direct sunlight, etc.