# Winding Type Chip Inductor

APO322523TO-SERIES

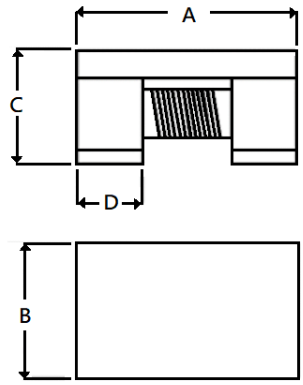
## 1. Features

1. Ferrite core wire wound construction.
2. High Reliability due to wire wound type construction.
3. Small footprint as well as low profile.
4. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
5. Operating temperature-40~+125℃(Including self - temperature rise).
6. Inductor for use in-vehicle PoC (Power Over Coax).

Halogen-free

RoHS

## 2. Dimension




| Size | A | B | C | D |
|---|---|---|---|---|
| APO3225 | 3.20±0.20 | 2.50±0.20 | 2.30±0.20 | 0.58±0.10 |

Unit:mm

## 3. Part Numbering

| APO | 322523 | T | O | - | 100 | M |
|---|---|---|---|---|---|---|
| A | B | C | D | | E | F |

A: Series
B: Dimension L x W x H
C: Application
D: Category Code Industrial Grade
E: Inductance 100=10.0uH
F: Inductance Tolerance M=±20%

## 4. Specification

| TAI-TECH Part Number | Ls(μH) (@100KHz) | DCR (Ω) Max. | Rated current(mA) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Isat | | | Irms | | |
| | | | 25°C (mA) Typ. | 105°C (mA) Typ. | 125°C (mA) Typ. | 25°C (mA) Typ. | 105°C (mA) Typ. | 125°C (mA) Typ. |
| APO322523TO-2R2M | 2.2±20% | 0.18 | 1100 | 1000 | 950 | 1350 | 1220 | 1045 |
| APO322523TO-4R7M | 4.7±20% | 0.10 | 720 | 650 | 600 | 1500 | 1400 | 1300 |
| APO322523TO-100M | 10.0±20% | 0.15 | 450 | 400 | 350 | 1300 | 1200 | 1100 |
| APO322523TO-150M | 15.0±20% | 0.40 | 400 | 350 | 310 | 825 | 725 | 625 |

Note:

- Isat： when based on the inductance change rate (30% below the initial L value)
  Irms： When based on the temperature increase (temperature increase of 40°C by self-heating)
- All test data referenced to 25℃ ambient.

## 5. Recommended PC Board Pattern

| | Land Patterns For Reflow Soldering | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Series** | **Type** | **A(mm)** | **B(mm)** | **C(mm)** | **D(mm)** | **L(mm)** | **G(mm)** | **H(mm)** |
| **APO** | 322523 | 3.20±0.20 | 2.50±0.20 | 2.30±0.20 | 0.58±0.10 | 3.80 | 2.20 | 2.80 |

