Winding Type Chip Inductor

APO453235NO-SERIES

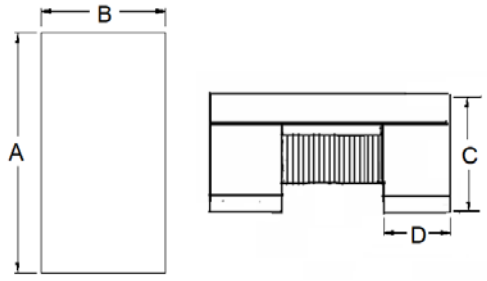
1. Features

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
APO453235	4.50±0.20	3.20±0.20	3.50±0.20.	0.83±0.10.

Unit: mm

3. Part Numbering

APO	453235	N	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 uH
F: Inductance Tolerance M=±20%

4. Specification

TAI-TECH Part Number	Inductance (μH) (@1 MHz)	DCR (Ω) Max.	SRF (MHz min.)	Rated current(mA)		
				Isat(mA)	Based on temperature rise	
					Ambient temperature 105℃	Ambient temperature 125℃
APO453235NO-100M	10±20%	0.13	60	1000	1000	710
APO453235NO-180M	18±20%	0.16	40	800	845	600
APO453235NO-220M	22±20%	0.18	30	700	700	500

Note:

- Isat: Applied the current to coils, the inductance change shall be less than 30% of initial value.
  Ambient temperature (105°C): the part temperature (ambient temperature plus self-generation of heat) should be under 125°C.
  Ambient temperature (125°C): the part temperature (ambient temperature plus self-generation of heat) should be under 130°C.
- 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	453235	4.50±0.20	3.20±0.20	3.50±0.20	0.83±0.10	4.90	3.00	3.25

