

Winding Type Chip Inductor

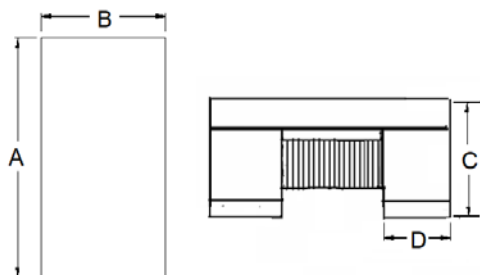
APO453235NV-SERIES

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. High reliability -Reliability tests comply with AEC-Q200
6. Operating temperature-40~+125°C (Including self - temperature rise)
7. Inductor for use in-vehicle PoC (Power Over Coax)



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	V	-	100	M
A	B	C	D		E	F

A: Series

B: Dimension

C: Application

D: Category Code

E: Inductance

F: Inductance Tolerance

L x W x H

V=Vehicle

100=10.0uH

M=±20%

4. Specification

TAI-TECH Part Number	Ls(μH) (@1 MHz)	DCR (Ω) Max.	SRF (MHz min.)	Rated current(mA)		
				Isat(mA)	Based on temperature rise	
					Ambient temperature 105°C	Ambient temperature 125°C
APO453235NV-100M	10±20%	0.13	60	1000	1000	710
APO453235NV-180M	18±20%	0.16	40	800	845	600
APO453235NV-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.

5. Soldering and Mounting

5-1. 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

