

Winding Type Chip Inductor

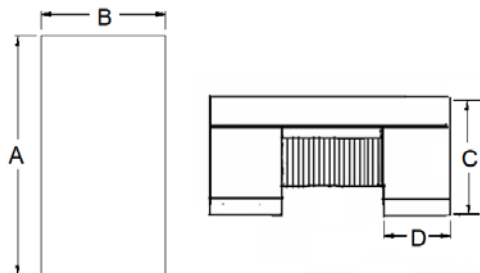
APO201216NV-SERIES

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-55~+150°C(Including self - temperature rise)
7. Inductor for use in-vehicle PoC (Power Over Coax)



2. Dimension



Size	A	B	C	D
APO201216	2.00±0.20	1.20±0.20	1.60±0.20	0.48±0.10

Unit:mm

3. Part Numbering

APO	201216	N	V	-	R47	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

R47=0.47uH

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
APO201216NV-R47M	0.47±20%	0.05	470	1000	1100	900
APO201216NV-R82M	0.82±20%	0.09	360	800	800	700
APO201216NV-1R0M	1.0±20%	0.13	320	700	700	600
APO201216NV-1R5M	1.5±20%	0.18	260	550	550	500
APO201216NV-2R0M	2.0±20%	0.29	230	450	450	400

Note:

Isat: Applied the current to coils, the inductance change shall be less than 30% of initial value.

Ambient temperature (85°C/105°C): the part temperature (ambient temperature plus self-generation of heat) should be under 150°C.

Ambient temperature (125°C):the part temperature (ambient temperature plus self-generation of heat) should be under 150°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	201216	2.00±0.20	1.20±0.20	1.60±0.20	0.48±0.10	2.42	1.10	1.20

