Winding Type Chip Inductor

APO201216NO-SERIES

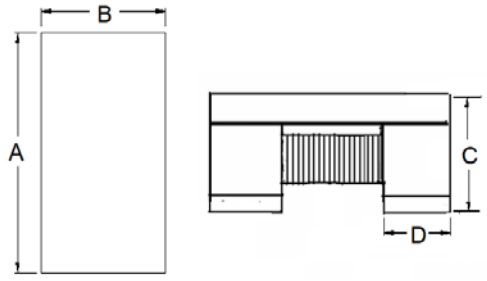
1. Features

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
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	O	-	R47	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 R47=0.47uH
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℃
APO201216NO-R47M	0.47±20%	0.05	470	1000	1100	900
APO201216NO-R82M	0.82±20%	0.09	360	800	800	700
APO201216NO-1R0M	1.00±20%	0.13	320	700	700	600
APO201216NO-1R5M	1.50±20%	0.18	260	550	550	500
APO201216NO-2R0M	2.00±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.
- 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	201216	2.00±0.20	1.20±0.20	1.60±0.20	0.48±0.10	2.42	1.10	1.20

