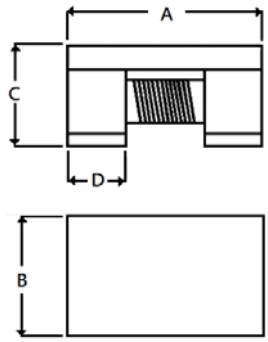
Winding Type Chip Inductor

APO322523NV-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℃(Including self - temperature rise)
7. Inductor for use in-vehicle PoC (Power Over Coax)

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	N	V	-	470	M
A	B	C	D		E	F

A: Series
B: Dimension L x W x H
C: Application
D: Category Code V=Vehicle
E: Inductance 470=47.0uH
F: Inductance Tolerance 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 85°C	Ambient temperature 105°C	Ambient temperature 125°C
APO322523NV-2R2M	2.2 ±20%	0.19	200	1000	1000	880	520
APO322523NV-2R7M	2.7 ±20%	0.22	200	975	975	860	510
APO322523NV-3R3M	3.3 ±20%	0.24	150	950	950	840	500
APO322523NV-4R7M	4.7 ±20%	0.28	100	850	850	720	400
APO322523NV-100M	10.0 ±20%	0.40	100	500	700	620	360
APO322523NV-220M	22.0 ±20%	0.62	50	400	550	500	280
APO322523NV-470M	47.0 ±20%	0.90	30	300	500	300	100

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	322523	3.20±0.20	2.50±0.20	2.30±0.20.	0.58±0.10.	3.80	2.20	2.80