

# Winding Type Chip Inductor

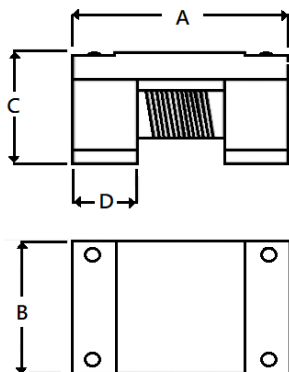
APO322523TV-SERIES

## 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~+125°C (Including self - temperature rise)
7. Inductor for use with separate signal and power lines in 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



- A: Series
- B: Dimension L x W x H
- C: Application
- D: Category Code V=Vehicle
- E: Inductance 100=10.0uH
- F: Inductance Tolerance M=±20%

## 4. Specification

TAI-TECH Part Number	Ls(μH) (@100KHz)	DCR (Ω) Max.	Rated current(mA)	
			Isat (mA)typ.	Irms (mA)typ.
APO322523TV-4R7M	4.7±20%	0.10	720	1500
APO322523TV-100M	10.0±20%	0.15	450	1300

Note:

Isat : when based on the inductance change rate (30% below the initial L value)

Irms : When based on the temperature increase (temperature increase of 40°C by self-heating)

# Winding Type Chip Inductor

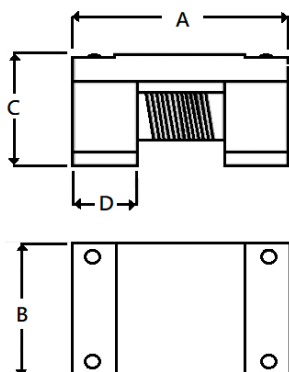
APO322523NV-SERIES

## 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~+125°C(Including self - temperature rise)
7. Inductor for use with separate signal and power lines in in-vehicle PoC (Power Over Coax)



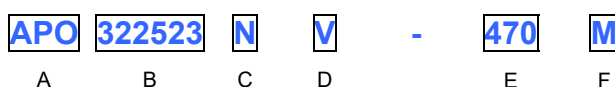
## 2. Dimension



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



A: Series  
 B: Dimension  
 C: Application  
 D: Category Code  
 E: Inductance  
 F: Inductance Tolerance

L x W x H  
 V=Vehicle  
 470=47.0uH  
 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 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 125°C.

Ambient temperature (125°C):the part temperature (ambient temperature plus self-generation of heat) should be under 130°C.

# Winding Type Chip Inductor

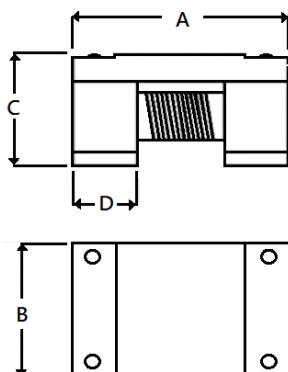
APO322530NV-SERIES

## 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~+125°C (Including self - temperature rise)
7. Inductor for use with separate signal and power lines in in-vehicle PoC (Power Over Coax)



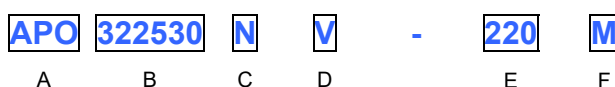
## 2. Dimension



Size	A	B	C	D
APO322530	3.20±0.20	2.50±0.20	3.00±0.20	0.58±0.10

Unit:mm

## 3. Part Numbering



A: Series  
 B: Dimension L x W x H  
 C: Application  
 D: Category Code V=Vehicle  
 E: Inductance 220=22.0uH  
 F: Inductance Tolerance M=±20%

## 4. Specification

Part number	Ls (μH) @100K/0.1V	DCR (Ohms)		SRF typ (MHz)	Isat(mA) Typ					Irms(mA) Typ		
		typ	max		25°C	85°C	105°C	125°C	140°C	25°C	85°C	125°C
APO322530NV-2R2M	2.2±20%	0.10	0.13	300	2200	1900	1700	1500	1300	1900	1730	1000
APO322530NV-6R8M	6.8±20%	0.20	0.24	120	1400	1000	930	800	700	1360	1230	800
APO322530NV-100M	10.0±20%	0.29	0.34	95	1100	850	760	660	560	1130	1020	570
APO322530NV-220M	22.0±20%	0.76	0.88	70	720	580	520	450	390	700	630	400

Note:

Maximum part temperature +140°C (ambient temperature plus self-generation of heat).

Isat : DC current that causes 30% inductance drop from its initial value at 200 mA at specified temperature.

Irms: Current that causes a 40°C rise at 25°C.

Current that causes a 40°C rise at 85°C.

Current that causes a 15°C rise at 125°C.