Winding Type Chip Inductor

SNL322522QO-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).

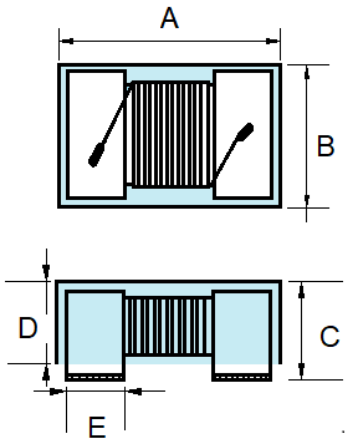
Halogen-free

RoHS

2. Application

Smart meters, AV equipment, xDSL, electronic devices for communications infrastructure such as mobile base stations, industrial equipment, other.

3. Dimension



Size	A	B	C	D	E
SNL322522	3.20±0.30	2.50±0.30	2.20±0.20	1.80±0.10.	0.55 ref

Unit: mm

4. Part Numbering

SNL	322522	Q	O	-	1R0	K
A	B	C	D		E	F

A: Series
B: Dimension L x W x H
C: Application
D: Category Code Industrial Grade
E: Inductance 1R0=1.0uH
F: Inductance Tolerance J=±5%, K=±10%

5. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance	L / Q Frequency (MHz)	Q ref.	SRF (MHz) ref.	DCR (Ω) max.	IDC (A) max.
SNL322522QO-10N□	0.010	J,K	100	15	2500	0.13	0.450
SNL322522QO-12N□	0.012	J,K	100	17	2300	0.14	0.450
SNL322522QO-15N□	0.015	J,K	100	19	2100	0.16	0.450
SNL322522QO-18N□	0.018	J,K	100	21	1900	0.18	0.450
SNL322522QO-22N□	0.022	J,K	100	23	1700	0.22	0.450

TAI-TECH Part Number	Inductance (uH)	Tolerance	L / Q Frequency (MHz)	Q ref.	SRF (MHz) ref.	DCR (Ω) max.	IDC (A) max.
SNL322522QO-27N□	0.027	J,K	100	23	1500	0.22	0.450
SNL322522QO-33N□	0.033	J,K	100	25	1400	0.24	0.450
SNL322522QO-39N□	0.039	J,K	100	25	1300	0.27	0.450
SNL322522QO-47N□	0.047	J,K	100	26	1200	0.30	0.450
SNL322522QO-56N□	0.056	J,K	100	26	1100	0.33	0.450
SNL322522QO-68N□	0.068	J,K	100	27	1000	0.36	0.450
SNL322522QO-82N□	0.082	J,K	100	28	900	0.40	0.450
SNL322522QO-R10□	0.10	J,K	100	28	700	0.44	0.450
SNL322522QO-R12□	0.12	J,K	25.2	30	500	0.22	0.450
SNL322522QO-R15□	0.15	J,K	25.2	30	450	0.25	0.450
SNL322522QO-R22□	0.22	J,K	25.2	30	350	0.32	0.450
SNL322522QO-R27□	0.27	J,K	25.2	30	320	0.36	0.450
SNL322522QO-R33□	0.33	J,K	25.2	30	300	0.40	0.450
SNL322522QO-R47□	0.47	J,K	25.2	30	220	0.50	0.450
SNL322522QO-R56□	0.56	J,K	25.2	30	180	0.55	0.450
SNL322522QO-R68□	0.68	J,K	25.2	30	160	0.60	0.450
SNL322522QO-R82□	0.82	J,K	25.2	30	140	0.65	0.450
SNL322522QO-1R0□	1.0	J,K	7.96	30	120	0.70	0.400
SNL322522QO-1R5□	1.5	J,K	7.96	30	85	0.85	0.370
SNL322522QO-2R2□	2.2	J,K	7.96	30	75	1.0	0.320
SNL322522QO-3R3□	3.3	J,K	7.96	30	60	1.2	0.260
SNL322522QO-4R7□	4.7	J,K	7.96	30	50	1.5	0.220
SNL322522QO-5R6□	5.6	J,K	7.96	30	45	1.6	0.200
SNL322522QO-6R8□	6.8	J,K	7.96	30	40	1.8	0.180
SNL322522QO-8R2□	8.2	J,K	7.96	30	30	2.0	0.170
SNL322522QO-100□	10	J,K	2.52	25	30	2.1	0.150
SNL322522QO-220□	22	J,K	2.52	25	20	3.7	0.110
SNL322522QO-330□	33	J,K	2.52	25	17	5.6	0.070
SNL322522QO-470□	47	J,K	2.52	25	15	7.0	0.060
SNL322522QO-680□	68	J,K	2.52	25	12	9.0	0.050
SNL322522QO-820□	82	J,K	2.52	25	11	10.0	0.045
SNL322522QO-101□	100	J,K	0.796	20	10	10.0	0.040
SNL322522QO-121□	120	J,K	0.796	20	10	11.0	0.040
SNL322522QO-151□	150	J,K	0.796	20	10	11.0	0.065

TAI-TECH Part Number	Inductance (uH)	Tolerance	L / Q Frequency (MHz)	Q ref.	SRF (MHz) ref.	DCR (Ω) max.	IDC (A) max.
SNL322522QO-181□	180	J,K	0.796	20	7	17.0	0.060
SNL322522QO-221□	220	J,K	0.796	20	7	21.0	0.050
SNL322522QO-271□	270	J,K	0.796	20	6	28.0	0.045
SNL322522QO-331□	330	J,K	0.796	20	5	34.0	0.040
SNL322522QO-391□	390	J,K	0.796	20	5	38.0	0.035
SNL322522QO-471□	470	J,K	0.796	20	4	40.0	0.025

Note:

- All test data referenced to 25℃ ambient.
- DC current at 25°C that causes the specified inductance drop from its value without current.
- Current that causes the specified temperature rise from 25°C ambient.

This information is for reference only and does not represent absolute maximum ratings.

6. Recommended PC Board Pattern

Chip size							Land Patterns For Reflow Soldering		
Series	Type	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	L(mm)	G(mm)	H(mm)
SNL	322522	3.20±0.3	2.50+0.3	2.20±0.2	1.80±0.1	0.55 ref	4.40	2.00	2.00

