

Product Series :	GNLT	Brand :	GOTREND
File Version :	GNLT-SERIES	Editor :	Yinghui Guo
Established Date	2023.04.23	Description :	Ferrite Wire Wound Inductor
Latest Edit Date :	2024.10.30	Product Type :	☒ Standard ☐ Customize

Version Information :

[illegible]

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REMINDERS

- ◆ Product information in this catalog is subject to change without notice, and is for reference only. Therefore, please contact GOTREND Technology to check for the latest information before practical application or usage of the products.
- ◆ This catalog contains only typical specifications, please contact GOTREND Technology for further details if you can not find special components or information you need in this catalogue. Please also approve our product specifications or transact the approval sheet for product specifications before ordering.
- ◆ This catalogue only applies to products purchased through GOTREND Technology or its official agencies. This catalogue does not apply to products that are purchased through other third parties.
- ◆ Please read Attention and CAUTION note (for storage, operating, rating, soldering, mounting and handling) in this catalog to ensure product proper usage.
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- ◆ Products listed in this catalog are intended for general electronic device usage under normal operation and use condition including telecommunication equipment, home appliances, sports equipment AV equipment, industrial machine, office equipment etc. Please take note that our products are not designed, intended or authorized for use in below mentioned applications unless explicitly agreed in writing between the parties to avoid product failure that could result in situation where personal injury or death could occur.

- (1) Aerospace/Aviation equipment
- (2) Atomic energy-related equipment
- (3) Disaster prevention/crime prevention equipment
- (4) Electric heating apparatus, burning equipment
- (5) Medical equipment
- (6) Military equipment
- (7) Power-generation control equipment
- (8) Public information-processing equipment
- (9) Safety equipment
- (10) Seabed equipment
- (11) Transportation control equipment
- (12) Transportation equipment (cars, electric trains, ships, etc.)
- (13) Other applications that are not considered general-purpose applications

- ◆ Our manufacturing sites fully compliance with requirement regarding the quality management system in the automotive industry under the IATF 16949 standard. GOTREND Technology respect individual agreements with reference to customer requirements and customer specific requirements (CSR). We will like to emphasize that only requirements mutually agreed upon will in implemented in our Quality Management System taking into consideration that IATF 16949 may appear to support the acceptance of unilateral requirements. We will only legally bind to this individually agreed upon agreement under the IATF 16949 standard.
- ◆ The product itself is a powder metallurgy product, so the structure is relatively fragile, and it should not be used for products that are easy to fall. In addition, when this product is assembled, it should avoid collision with the tool or mechanism shell.
- ◆ It is not recommended to use hot air gun for disassembling of this product. When using of hot air gun to repair other parts, please also take note that long time or high temperature exposure of this product will also damage the inductance device. If you need to use the hot air gun to disassemble the product, it is recommended to adjust the hot air gun temperature to 380 deg.C±5 deg.C. The blower head of the hot air gun should be perpendicular and at least 1cm away from the product. After heating the product to the tin material melting point, use tweezers to remove the product from the PCB.



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Features & Application :

- * Ferrite construction for high Q
- * Fit for power line & signal line circuit
- * To help you go pass the CE/FCC standard.
- * Mobiel Device / Handheld Device / LowProfile Device / Panel



(Picture for reference only)

Part No. Example :

PN	:	GNLТ	252018	P	☐	-	6R8	☐
ID	:	1	2	3	4		5	6
1	:	GOTREND Series : GNLТ						
2	:	Dimension Code : 252018 [2.5 x 2.0x 1.8 mm]						
3	:	P = Pb < 1000 ppm						
4	:	[Q] : Material Code						
5	:	[L] Value : Inductance 6R8 = 6.8uH						
6	:	Tolerance : G = J = 5%, K = 10%,M=20%						

Basic Information :

Made in	China
Pin Foot	SMD
Shielding	No
J-STD-020	MSL Level 1
RoHS	Compliant
REACH	Compliant
Halogen	Free

Operating & Storage Condition :

- * Operating Temp -40 ~ +125 deg.C (Including self - temperature rise)
- * Storage Temp 1. -10 ~ +45 deg.C , 50 ~ 60% RH (Product with taping)
2. -40 ~ +125 deg.C (On board)
- * Storage Life Time 6 Month (Less than 40 deg.C and 60% RH)

Attention & Caution :

- * Keep out of Splashing water or salt water
- * Avoid Toxic Gas (Hydrogen sulfide, Sulfurous acid, Chlorine, Ammonia)
Vibrations or shocks which exceed the specified condition
Dew condense
Layout near the edge of PCB
Over flexure after SMT mounting & PCBA
- * Pin foot or SMD pad solderability: Pb free type is best within 6 months after delivery
- * Humidity sensitive , IPC/JEDEC J-STD-020 MSL if over Level 1, recommend bake 30mins@150 degree before PCBA
- * Caution for human life relative applications : PLS contact & consult with GOTREND team in design stage.

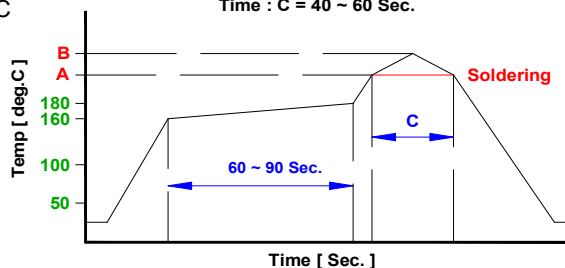


Test Condition :

- * Equipment HP4284A , HP42841A - L , Q , DCR , IDC
HP8753D Network analyzer - SRF
- * Standard Atmosphere Conditions:
Ambient Temperature 20 ± 15 deg.C
Humidity RH 65 ± 20%
- * If there may be any doubt on the test result ,
Measurement shall be made within the following limits:
Ambient Temperature 25 ± 5 deg.C
Humidity RH 75 ± 10%

Recommend IR Reflow Curve : GTX-IR-FILE001

Lead Free Solder : A = 217 deg.C , B = 245+/-5 deg.C
Time : C = 40 ~ 60 Sec.



Notice : Iron Soldering , Solder < 30 Watt ,
Direct touch the terminal x 3 Sec. Max. @ 350 deg.C

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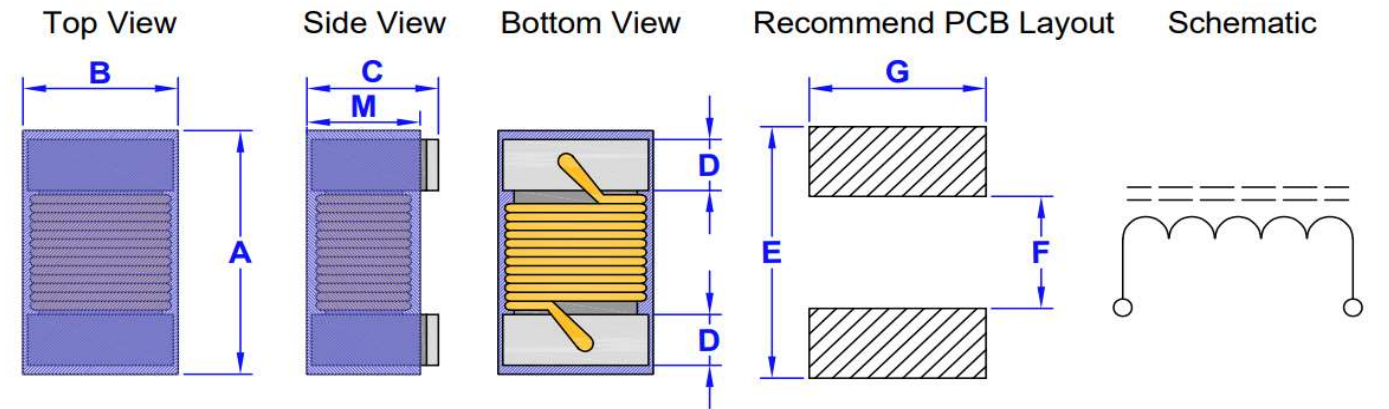
Ferrite Wire Wound Inductor - GNLT Series Type

Image	Part Name	L (mm) Typ.	W (mm) Typ.	H (mm) Typ.	Inductance Range (uH) J=+/-5%, K=+/-10%, M=+/-20%		DCR (Ohm) Typ.	IDC (A) Typ.	Q Typ.	Page
	GNLT252018PC	2.5	2.0	1.8	1.00	33.00	0.14 ~ 4.20	0.12 ~ 1.00	15 ~ 30	5
	GNLT252018PQ	2.5	2.0	1.8	0.12	100.00	0.30 ~ 21.00	0.06 ~ 0.55	15 ~ 30	6 ~ 7
	GNLT322522PC	3.2	2.5	2.2	1.00	330.00	0.055 ~ 12.30	0.07 ~ 1.70	15 ~ 20	8
	GNLT322522PQ	3.2	2.5	2.2	0.01	470.00	0.13 ~ 40.00	0.025 ~ 0.45	15 ~ 30	9 ~ 11
	GNLT453232PC	4.5	3.2	3.2	1.00	1000.0	0.11 ~ 30.00	0.07 ~ 1.30	10 ~ 20	12 ~ 13
	GNLT453232PQ	4.5	3.2	3.2	1.00	1000.0	0.28 ~ 32.00	0.055 ~ 0.60	30 ~ 40	14 ~ 15

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GNLT252018PC-SERIES

Dimension [mm] :



Size	A (+/-0.3)	B (+/-0.3)	C (+/-0.1)	M (+/-0.1)	D (Ref.)	E (Ref.)	F (Ref.)
252018	2.50	2.00	1.80	1.50	0.45	3.50	1.50
	G (Ref.)						
	1.50						

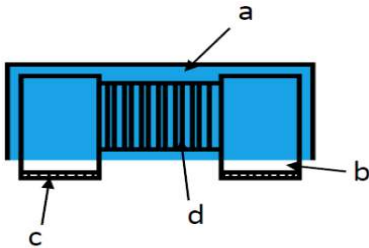
Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	L/Q Frequency (MHz)	Q Ref.	SRF (MHz) Ref.	DCR (Ohm) +/-30%	IDC1 (A) Max.	IDC2 (A) Max.
GNLT252018PC-1R0□	1.0	K,M	7.96	20	300	0.140	0.475	1.000
GNLT252018PC-1R5□	1.5	K,M	7.96	20	250	0.180	0.435	0.890
GNLT252018PC-2R2□	2.2	K,M	7.96	20	200	0.270	0.390	0.730
GNLT252018PC-3R3□	3.3	K,M	7.96	20	100	0.440	0.340	0.570
GNLT252018PC-4R7□	4.7	K,M	7.96	20	60	0.570	0.285	0.500
GNLT252018PC-6R8□	6.8	K,M	7.96	20	55	0.920	0.275	0.390
GNLT252018PC-100□	10.0	K,M	2.52	15	40	1.690	0.210	0.360
GNLT252018PC-150□	15.0	K,M	2.52	30	35	2.200	0.175	0.250
GNLT252018PC-220□	22.0	K,M	2.52	30	20	2.800	0.160	0.200
GNLT252018PC-330□	33.0	K,M	2.52	30	18	4.200	0.120	0.150

- * **Tolerance Code** : □ K=+/-10%, M=+/-20%
- * **IDC1**: The coil is energized according to the specification, IDC1 ΔL ≤ 10% ΔT ≤ 20℃
- * **IDC2**: The coil is energized according to the specification, IDC2 ΔL ≤ 30% ΔT ≤ 40℃
- * The coil is energized according to the specification, and the inductance change is smaller than the initial value (according to the specification value)
- * Heat Rated Current(Irms) will cause the coil temperature rise Δ T(℃) without core loss.
 (1.)Applied the allowed DC current.
 (2.)Temperature measured by digital surface thermometer.

Materials:

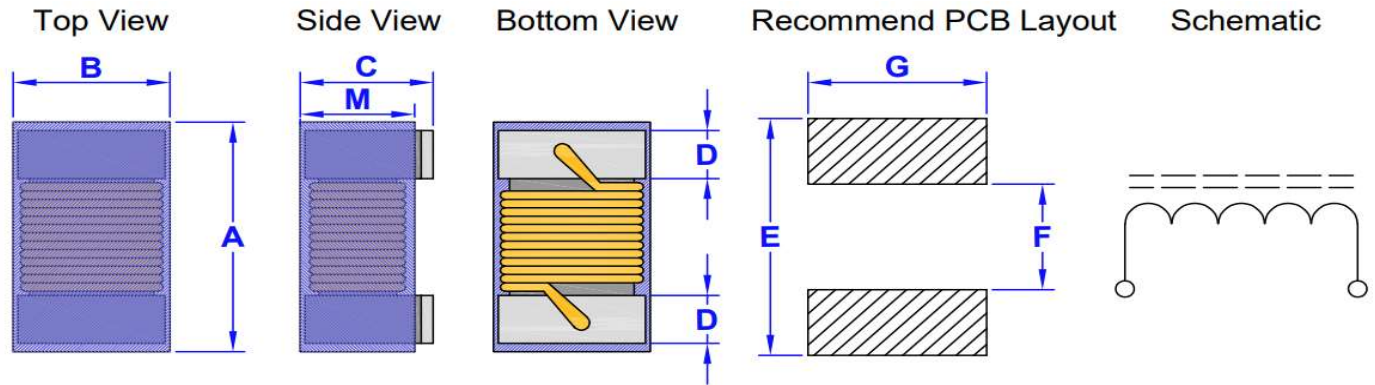
NO.	Description	Specification
a.	Upper plate	UV Glue
b.	Core	Ferrite Core
c.	Termination	Ag/Ni/Sn
d.	Wire	Enameled Copper Wire



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GNLT252018PQ-SERIES

Dimension [mm] :



Size	A (+/-0.3)	B (+/-0.3)	C (+/-0.1)	M (+/-0.1)	D (Ref.)	E (Ref.)	F (Ref.)
252018	2.50	2.00	1.80	1.50	0.45	3.50	1.50
	G (Ref.)						
	1.50						

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	L/Q Frequency (MHz)	Q Ref.	SRF (MHz) Ref.	DCR (Ohm) Max.	IDC (A) Max.
GNLT252018PQ-R12□	0.12	J,K	25.2	30	700	0.30	0.550
GNLT252018PQ-R22□	0.22	J,K	25.2	30	450	0.50	0.450
GNLT252018PQ-R27□	0.27	J,K	25.2	30	425	0.55	0.425
GNLT252018PQ-R33□	0.33	J,K	25.2	30	400	0.60	0.400
GNLT252018PQ-R47□	0.47	J,K	25.2	30	350	0.68	0.400
GNLT252018PQ-R56□	0.56	J,K	25.2	30	325	0.75	0.400
GNLT252018PQ-R82□	0.82	J,K	25.2	30	260	1.00	0.300
GNLT252018PQ-1R0□	1.00	J,K	7.96	30	245	1.10	0.245
GNLT252018PQ-1R2□	1.20	J,K	7.96	30	230	1.20	0.230
GNLT252018PQ-2R2□	2.20	J,K	7.96	30	105	1.55	0.200
GNLT252018PQ-3R3□	3.30	J,K	7.96	30	55	1.90	0.185
GNLT252018PQ-4R7□	4.70	J,K	7.96	30	43	2.30	0.175
GNLT252018PQ-5R6□	5.60	J,K	7.96	25	42	2.50	0.170

* **Tolerance Code** : □ J=+/-5%, K=+/-10%

* **IDC**: The coil is energized according to the specification, $IDC \Delta L \leq 10\%$ $\Delta T \leq 20^{\circ}C$

* The coil is energized according to the specification, and the inductance change is smaller than the initial value (according to the specification value)

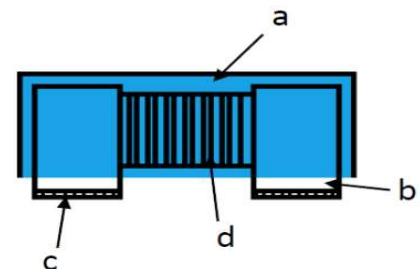
* Heat Rated Current(Irms) will cause the coil temperature rise $\Delta T(^{\circ}C)$ without core loss.

(1.)Applied the allowed DC current.

(2.)Temperature measured by digital surface thermometer.

Materials:

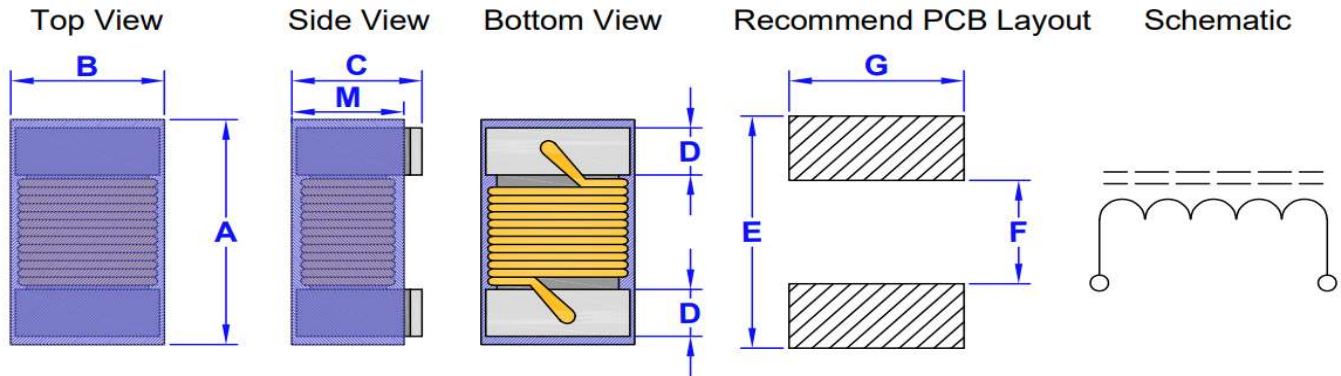
NO.	Description	Specification
a.	Upper plate	UV Glue
b.	Core	Ferrite Core
c.	Termination	Ag/Ni/Sn
d.	Wire	Enameled Copper Wire



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Dimension [mm] :



Size	A (+/-0.3)	B (+/-0.3)	C (+/-0.1)	M (+/-0.1)	D (Ref.)	E (Ref.)	F (Ref.)
252018	2.50	2.00	1.80	1.50	0.45	3.50	1.50
	G (Ref.)						
	1.50						

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	L/Q Frequency (MHz)	Q Ref.	SRF (MHz) Ref.	DCR (Ohm) Max.	IDC (A) Max.
GHLT252018PQ-6R8□	6.80	J,K	7.96	25	39	2.70	0.165
GHLT252018PQ-8R2□	8.20	J,K	7.96	25	36	3.05	0.160
GHLT252018PQ-100□	10.00	J,K	2.52	25	33	3.50	0.155
GHLT252018PQ-150□	15.00	J,K	2.52	25	26	4.80	0.140
GHLT252018PQ-220□	22.00	J,K	2.52	25	22	5.50	0.125
GHLT252018PQ-270□	27.00	J,K	2.52	25	21	6.30	0.115
GHLT252018PQ-330□	33.00	J,K	2.52	25	20	7.10	0.110
GHLT252018PQ-470□	47.00	J,K	2.52	20	17	11.10	0.080
GHLT252018PQ-560□	56.00	J,K	2.52	20	16	12.10	0.075
GHLT252018PQ-680□	68.00	J,K	2.52	20	15	16.60	0.070
GHLT252018PQ-820□	82.00	J,K	2.52	20	13	19.00	0.066
GHLT252018PQ-101□	100.00	J,K	0.796	15	12	21.00	0.060

* **Tolerance Code** : □ J=+/-5%, K=+/-10%

* **IDC**: The coil is energized according to the specification, $IDC \Delta L \leq 10\%$ $\Delta T \leq 20^{\circ}C$

* The coil is energized according to the specification, and the inductance change is smaller than the initial value (according to the specification value)

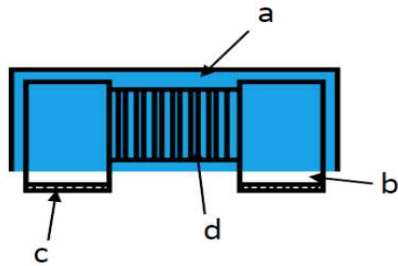
* Heat Rated Current(I_{rms}) will cause the coil temperature rise $\Delta T(^{\circ}C)$ without core loss.

(1.)Applied the allowed DC current.

(2.)Temperature measured by digital surface thermometer.

Materials:

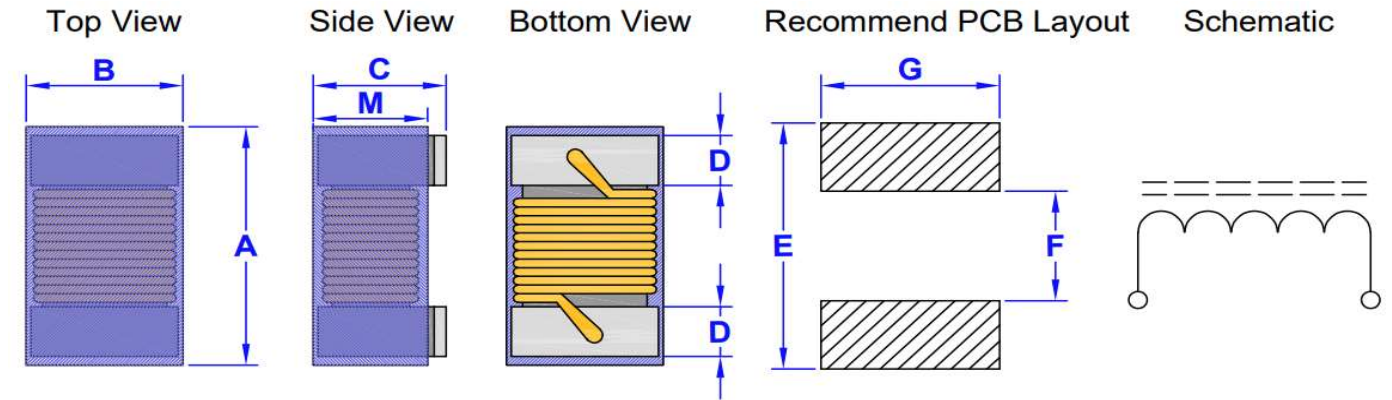
NO.	Description	Specification
a.	Upper plate	UV Glue
b.	Core	Ferrite Core
c.	Termination	Ag/Ni/Sn
d.	Wire	Enameled Copper Wire



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GNLT322522PC-SERIES

Dimension [mm] :



Size	A (+/-0.3)	B (+/-0.3)	C (+/-0.2)	M (+/-0.1)	D (Ref.)	E (Ref.)	F (Ref.)
322522	3.20	2.50	2.20	1.80	0.55	4.40	2.00
	G (Ref.)						
	2.00						

Electrical Characteristics :

Part No.	Ls (uH)	Inductance Tolerance	L/Q Frequency (MHz)	Q Ref	SRF (MHz) Ref.	DCR (Ohm) +/-20%	IDC1 (A) Max.	IDC2 (A) Max.
GNLT322522PC-1R0□	1.00	M	7.96	15	300	0.055	1.000	1.700
GNLT322522PC-1R5□	1.50	M	7.96	15	200	0.095	0.830	1.400
GNLT322522PC-2R2□	2.20	M	7.96	15	100	0.115	0.770	1.200
GNLT322522PC-3R3□	3.30	M	7.96	15	80	0.160	0.690	1.000
GNLT322522PC-4R7□	4.70	M	7.96	15	70	0.200	0.620	0.900
GNLT322522PC-6R8□	6.80	M	7.96	15	38	0.270	0.530	0.700
GNLT322522PC-100□	10.00	K	2.52	15	30	0.360	0.450	0.600
GNLT322522PC-150□	15.00	K	2.52	15	26	0.560	0.390	0.500
GNLT322522PC-220□	22.00	K	2.52	15	21	0.770	0.300	0.400
GNLT322522PC-330□	33.00	K	2.52	15	17	1.100	0.240	0.350
GNLT322522PC-470□	47.00	K	2.52	15	14	1.640	0.180	0.250
GNLT322522PC-680□	68.00	K	2.52	15	12	2.800	0.140	0.200
GNLT322522PC-101□	100.00	K	0.796	20	10	3.700	0.120	0.150
GNLT322522PC-151□	150.00	K	0.796	20	8	6.100	0.100	0.125
GNLT322522PC-221□	220.00	K	0.796	20	7	8.400	0.080	0.100
GNLT322522PC-331□	330.00	K	0.796	20	6	12.300	0.070	0.090

* **Tolerance Code** : □ K=+/-10%, M=+/-20%

* **IDC1**: The coil is energized according to the specification, IDC1 $\Delta L \leq 10\%$ $\Delta T \leq 20^\circ\text{C}$

* **IDC2**: The coil is energized according to the specification, IDC2 $\Delta L \leq 30\%$ $\Delta T \leq 40^\circ\text{C}$

* The coil is energized according to the specification, and the inductance change is smaller than the initial value (according to the specification value)

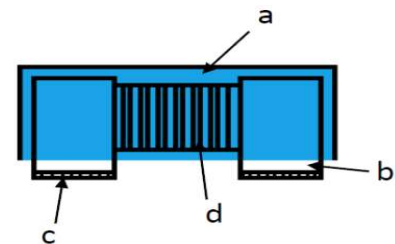
* Heat Rated Current(Irms) will cause the coil temperature rise $\Delta T(^{\circ}\text{C})$ without core loss.

(1.) Applied the allowed DC current.

(2.) Temperature measured by digital surface thermometer.

Materials:

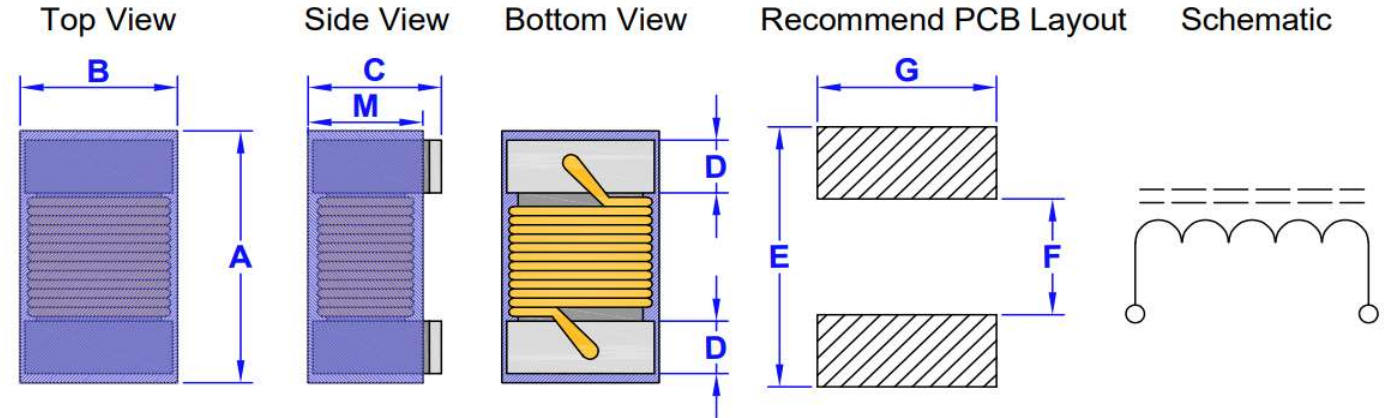
NO.	Description	Specification
a.	Upper plate	UV Glue
b.	Core	Ferrite Core
c.	Termination	Ag/Ni/Sn
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GNLT322522PQ-SERIES

Dimension [mm] :



Size	A (+/-0.3)	B (+/-0.3)	C (+/-0.2)	M (+/-0.1)	D (Ref.)	E (Ref.)	F (Ref.)
322522	3.20	2.50	2.20	1.80	0.55	4.40	2.00
	G (Ref.) 2.00						

Electrical Characteristics :

Part No.	Ls (uH)	Inductance Tolerance	L/Q Frequency (MHz)	Q Ref.	SRF(MHz) Ref.	DCR (Ohm) Max.	IDC (A) Max.
GNLT322522PQ-10N□	0.010	J,K	100.0	15	2500	0.13	0.450
GNLT322522PQ-12N□	0.012	J,K	100.0	17	2300	0.14	0.450
GNLT322522PQ-15N□	0.015	J,K	100.0	19	2100	0.16	0.450
GNLT322522PQ-18N□	0.018	J,K	100.0	21	1900	0.18	0.450
GNLT322522PQ-22N□	0.022	J,K	100.0	23	1700	0.22	0.450
GNLT322522PQ-27N□	0.027	J,K	100.0	23	1500	0.22	0.450
GNLT322522PQ-33N□	0.033	J,K	100.0	25	1400	0.24	0.450
GNLT322522PQ-39N□	0.039	J,K	100.0	25	1300	0.27	0.450
GNLT322522PQ-47N□	0.047	J,K	100.0	26	1200	0.30	0.450
GNLT322522PQ-56N□	0.056	J,K	100.0	26	1100	0.33	0.450
GNLT322522PQ-68N□	0.068	J,K	100.0	27	1000	0.36	0.450
GNLT322522PQ-82N□	0.082	J,K	100.0	28	900	0.40	0.450
GNLT322522PQ-R10□	0.100	J,K	100.0	28	700	0.44	0.450
GNLT322522PQ-R12□	0.120	J,K	25.2	30	500	0.22	0.450
GNLT322522PQ-R15□	0.150	J,K	25.2	30	450	0.25	0.450
GNLT322522PQ-R22□	0.220	J,K	25.2	30	350	0.32	0.450

* **Tolerance Code** : □ J=+/-5%, K=+/-10%

* **IDC**: The coil is energized according to the specification, IDC $\Delta L \leq 10\%$ $\Delta T \leq 20^{\circ}\text{C}$

* The coil is energized according to the specification, and the inductance change is smaller than the initial value (according to the specification value)

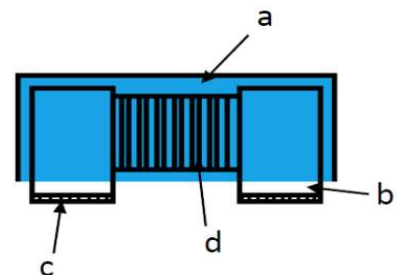
* Heat Rated Current(Irms) will cause the coil temperature rise $\Delta T(^{\circ}\text{C})$ without core loss.

(1.)Applied the allowed DC current.

(2.)Temperature measured by digital surface thermometer.

Materials:

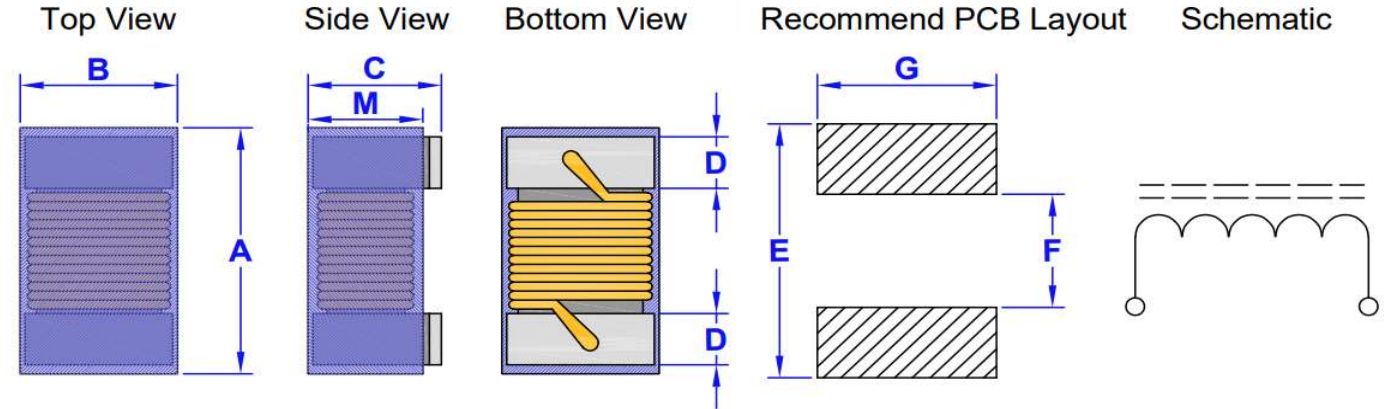
NO.	Description	Specification
a.	Upper plate	UV Glue
b.	Core	Ferrite Core
c.	Termination	Ag/Ni/Sn
d.	Wire	Enameled Copper Wire



Product Series :	GNLT	Brand :	GOTREND
File Version :	GNLT-SERIES	Editor :	Yinghui Guo
Established Date	2023.04.23	Description :	Ferrite Wire Wound Inductor
Latest Edit Date :	2024.10.30	Product Type :	☒ Standard ☐ Customize

GNLT322522PQ-SERIES

Dimension [mm] :



Size	A (+/-0.3)	B (+/-0.3)	C (+/-0.2)	M (+/-0.1)	D (Ref.)	E (Ref.)	F (Ref.)
322522	3.20	2.50	2.20	1.80	0.55	4.40	2.00
	G (Ref.)						
	2.00						

Electrical Characteristics :

Part No.	Ls (uH)	Inductance Tolerance	L/Q Frequency (MHz)	Q Ref.	SRF (MHz) Ref.	DCR (Ohm) Max.	IDC (A) Max.
GNLT322522PQ-R27□	0.270	J,K	25.20	30	320	0.36	0.450
GNLT322522PQ-R33□	0.330	J,K	25.20	30	300	0.40	0.450
GNLT322522PQ-R47□	0.470	J,K	25.20	30	220	0.50	0.450
GNLT322522PQ-R56□	0.560	J,K	25.20	30	180	0.55	0.450
GNLT322522PQ-R68□	0.680	J,K	25.20	30	160	0.60	0.450
GNLT322522PQ-R82□	0.820	J,K	25.20	30	140	0.65	0.450
GNLT322522PQ-1R0□	1.000	J,K	7.96	30	120	0.70	0.400
GNLT322522PQ-1R5□	1.500	J,K	7.96	30	85	0.85	0.370
GNLT322522PQ-2R2□	2.200	J,K	7.96	30	75	1.00	0.320
GNLT322522PQ-3R3□	3.300	J,K	7.96	30	60	1.20	0.260
GNLT322522PQ-4R7□	4.700	J,K	7.96	30	50	1.50	0.220
GNLT322522PQ-5R6□	5.600	J,K	7.96	30	45	1.60	0.200
GNLT322522PQ-6R8□	6.800	J,K	7.96	30	40	1.80	0.180
GNLT322522PQ-8R2□	8.200	J,K	7.96	30	30	2.00	0.170
GNLT322522PQ-100□	10.000	J,K	2.52	25	30	2.10	0.150
GNLT322522PQ-220□	22.000	J,K	2.52	25	20	3.70	0.110

* **Tolerance Code** : □ J=+/-5%, K=+/-10%

* **IDC**: The coil is energized according to the specification, $IDC \Delta L \leq 10\%$ $\Delta T \leq 20^{\circ}C$

* The coil is energized according to the specification, and the inductance change is smaller than the initial value (according to the specification value)

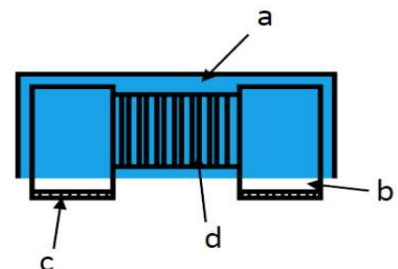
* Heat Rated Current(Irms) will cause the coil temperature rise $\Delta T(^{\circ}C)$ without core loss.

(1.)Applied the allowed DC current.

(2.)Temperature measured by digital surface thermometer.

Materials:

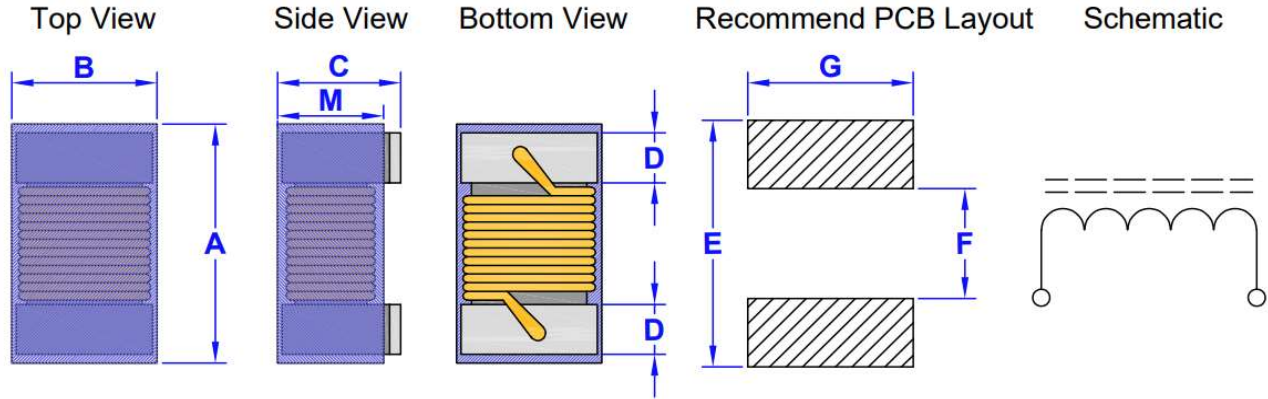
NO.	Description	Specification
a.	Upper plate	UV Glue
b.	Core	Ferrite Core
c.	Termination	Ag/Ni/Sn
d.	Wire	Enameled Copper Wire



Product Series :	GNLT	Brand :	GOTREND
File Version :	GNLT-SERIES	Editor :	Yinghui Guo
Established Date	2023.04.23	Description :	Ferrite Wire Wound Inductor
Latest Edit Date :	2024.10.30	Product Type :	☒ Standard ☐ Customize

GNLT322522PQ-SERIES

Dimension [mm] :



Size	A (+/-0.3)	B (+/-0.3)	C (+/-0.2)	M (+/-0.1)	D (Ref.)	E (Ref.)	F (Ref.)
322522	3.20	2.50	2.20	1.80	0.55	4.40	2.00
	G (Ref.)						
	2.00						

Electrical Characteristics :

Part No.	Ls (uH)	Inductance Tolerance	L/Q Frequency (MHz)	Q Ref.	SRF (MHz) Ref.	DCR (Ohm) Max.	IDC (A) Max.
GNLT322522PQ-330□	33.00	J,K	2.52	25	17	5.60	0.070
GNLT322522PQ-470□	47.00	J,K	2.52	25	15	7.00	0.060
GNLT322522PQ-680□	68.00	J,K	2.52	25	12	9.00	0.050
GNLT322522PQ-820□	82.00	J,K	2.52	25	11	10.00	0.045
GNLT322522PQ-101□	100.00	J,K	0.796	20	10	10.00	0.040
GNLT322522PQ-121□	120.00	J,K	0.796	20	10	11.00	0.040
GNLT322522PQ-151□	150.00	J,K	0.796	20	10	11.00	0.065
GNLT322522PQ-181□	180.00	J,K	0.796	20	7	17.00	0.060
GNLT322522PQ-221□	220.00	J,K	0.796	20	7	21.00	0.050
GNLT322522PQ-271□	270.00	J,K	0.796	20	6	28.00	0.045
GNLT322522PQ-331□	330.00	J,K	0.796	20	5	34.00	0.040
GNLT322522PQ-391□	390.00	J,K	0.796	20	5	38.00	0.035
GNLT322522PQ-471□	470.00	J,K	0.796	20	4	40.00	0.025

* **Tolerance Code** : □ J=+/-5%, K=+/-10%

* **IDC**: The coil is energized according to the specification, $IDC \Delta L \leq 10\%$ $\Delta T \leq 20^{\circ}C$

* The coil is energized according to the specification, and the inductance change is smaller than the initial value (according to the specification value)

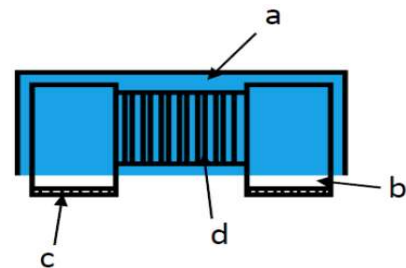
* Heat Rated Current(Irms) will cause the coil temperature rise $\Delta T(^{\circ}C)$ without core loss.

(1.)Applied the allowed DC current.

(2.)Temperature measured by digital surface thermometer.

Materials:

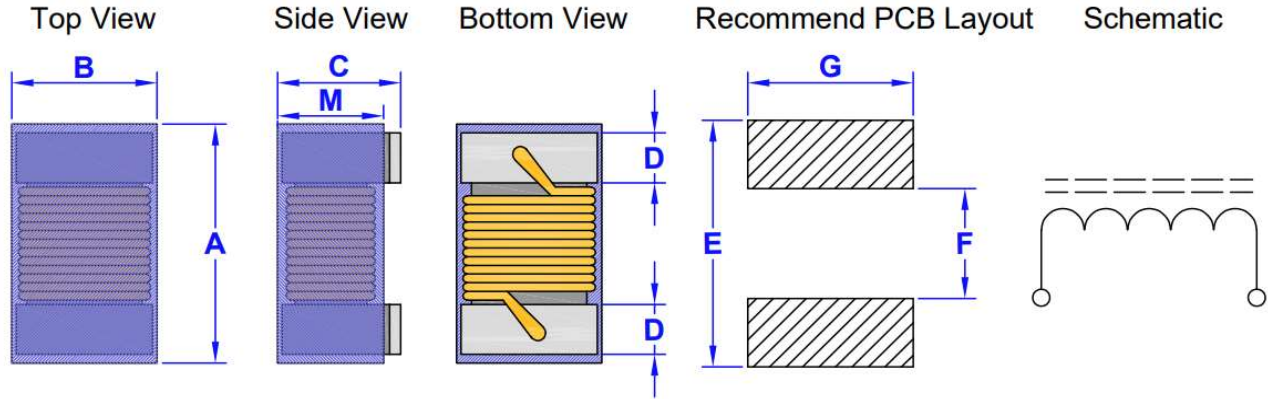
NO.	Description	Specification
a.	Upper plate	UV Glue
b.	Core	Ferrite Core
c.	Termination	Ag/Ni/Sn
d.	Wire	Enameled Copper Wire



Product Series :	GNLT	Brand :	GOTREND
File Version :	GNLT-SERIES	Editor :	Yinghui Guo
Established Date	2023.04.23	Description :	Ferrite Wire Wound Inductor
Latest Edit Date :	2024.10.30	Product Type :	☒ Standard ☐ Customize

GNLT453232PC-SERIES

Dimension [mm] :



Size	A (+/-0.3)	B (+/-0.3)	C (+/-0.2)	M (Ref.)	D (Ref.)	E (Ref.)	F (Ref.)
453232	4.50	3.20	3.20	2.50	0.60	5.80	3.20
	G (Ref.)						
	3.60						

Electrical Characteristics :

Part No.	Ls (uH)	Inductance Tolerance	L/Q Frequency (MHz)	Q Ref.	SRF (MHz) Ref.	DCR (Ohm) Max.	IDC (A) Max.
GNLT453232PC-1R0□	1.00	K	7.96	10	110.0	0.11	1.300
GNLT453232PC-2R2□	2.20	K	7.96	10	60.0	0.15	1.000
GNLT453232PC-3R3□	3.30	K	7.96	10	50.0	0.19	0.900
GNLT453232PC-4R7□	4.70	K	7.96	10	40.0	0.22	0.800
GNLT453232PC-5R6□	5.60	K	7.96	10	38.0	0.26	0.750
GNLT453232PC-6R8□	6.80	K	7.96	10	36.0	0.30	0.700
GNLT453232PC-8R2□	8.20	K	7.96	10	30.0	0.33	0.670
GNLT453232PC-100□	10.00	K	2.52	10	25.0	0.43	0.650
GNLT453232PC-150□	15.00	K	2.52	10	20.0	0.50	0.600
GNLT453232PC-220□	22.00	K	2.52	10	15.0	0.70	0.450
GNLT453232PC-330□	33.00	K	2.52	10	13.0	1.20	0.400
GNLT453232PC-470□	47.00	K	2.52	10	11.0	1.35	0.350

* **Tolerance Code** : □ K=+/-10%

* **IDC**: The coil is energized according to the specification, IDC $\Delta L \leq 30\%$ $\Delta T \leq 40^\circ\text{C}$

* The coil is energized according to the specification, and the inductance change is smaller than the initial value (according to the specification value)

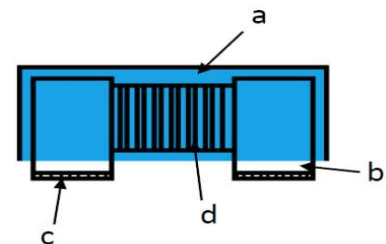
* Heat Rated Current(Irms) will cause the coil temperature rise $\Delta T(^{\circ}\text{C})$ without core loss.

(1.)Applied the allowed DC current.

(2.)Temperature measured by digital surface thermometer.

Materials:

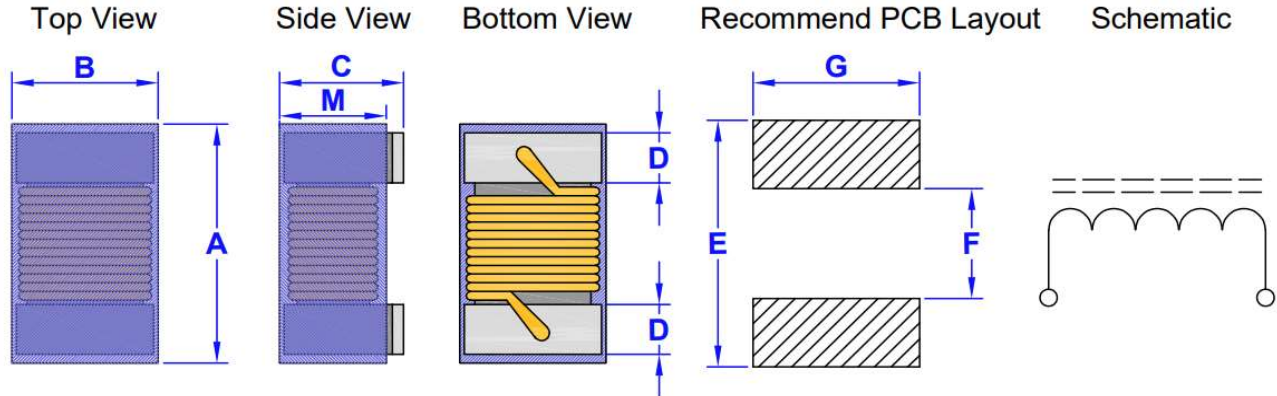
NO.	Description	Specification
a.	Upper plate	UV Glue
b.	Core	Ferrite Core
c.	Termination	Ag/Ni/Sn
d.	Wire	Enameled Copper Wire



Product Series :	GNLT	Brand :	GOTREND
File Version :	GNLT-SERIES	Editor :	Yinghui Guo
Established Date	2023.04.23	Description :	Ferrite Wire Wound Inductor
Latest Edit Date :	2024.10.30	Product Type :	☒ Standard ☐ Customize

GNLT453232PC-SERIES

Dimension [mm] :



Size	A (+/-0.3)	B (+/-0.3)	C (+/-0.2)	M (Ref.)	D (Ref.)	E (Ref.)	F (Ref.)
453232	4.50	3.20	3.20	2.50	0.60	5.80	3.20
	G (Ref.)						
	3.60						

Electrical Characteristics :

Part No.	Ls (uH)	Inductance Tolerance	L/Q Frequency (MHz)	Q Ref.	SRF (MHz) Ref.	DCR (Ohm) Max.	IDC (A) Max.
GNLT453232PC-560□	56.00	K	2.52	10	10.0	2.00	0.300
GNLT453232PC-680□	68.00	K	2.52	10	8.0	2.50	0.250
GNLT453232PC-820□	82.00	K	2.52	10	7.0	3.00	0.220
GNLT453232PC-101□	100.00	K	0.796	20	6.5	3.50	0.200
GNLT453232PC-151□	150.00	K	0.796	20	6.1	6.00	0.160
GNLT453232PC-221□	220.00	K	0.796	20	4.5	7.50	0.130
GNLT453232PC-331□	330.00	K	0.796	20	4.1	11.00	0.120
GNLT453232PC-471□	470.00	K	0.796	20	3.5	15.00	0.100
GNLT453232PC-561□	560.00	K	0.796	20	3.0	20.00	0.090
GNLT453232PC-681□	680.00	K	0.796	20	2.6	23.00	0.080
GNLT453232PC-821□	820.00	K	0.796	20	2.4	27.00	0.080
GNLT453232PC-102□	1000.00	K	0.252	20	2.3	30.00	0.070

* **Tolerance Code** : □ K=+/-10%

* **IDC**: The coil is energized according to the specification, IDC $\Delta L \leq 30\%$ $\Delta T \leq 40^\circ\text{C}$

* The coil is energized according to the specification, and the inductance change is smaller than the initial value (according to the specification value)

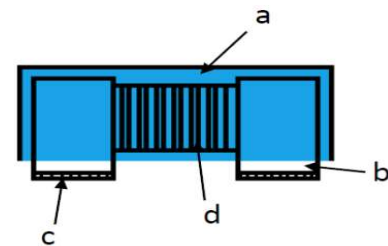
* Heat Rated Current(Irms) will cause the coil temperature rise $\Delta T(^{\circ}\text{C})$ without core loss.

(1.)Applied the allowed DC current.

(2.)Temperature measured by digital surface thermometer.

Materials:

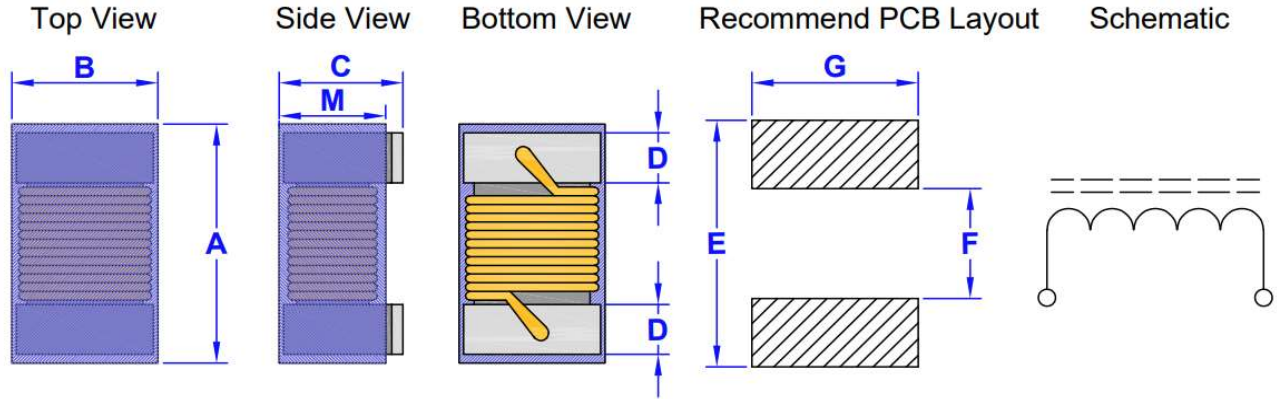
NO.	Description	Specification
a.	Upper plate	UV Glue
b.	Core	Ferrite Core
c.	Termination	Ag/Ni/Sn
d.	Wire	Enameled Copper Wire



Product Series :	GNLT	Brand :	GOTREND
File Version :	GNLT-SERIES	Editor :	Yinghui Guo
Established Date	2023.04.23	Description :	Ferrite Wire Wound Inductor
Latest Edit Date :	2024.10.30	Product Type :	☒ Standard ☐ Customize

GNLT453232PQ-SERIES

Dimension [mm] :



Size	A (+/-0.3)	B (+/-0.3)	C (+/-0.2)	M (Ref.)	D (Ref.)	E (Ref.)	F (Ref.)
453232	4.50	3.20	3.20	2.50	0.60	5.80	3.20
	G (Ref.)						
	3.60						

Electrical Characteristics :

Part No.	Ls (uH)	Inductance Tolerance	Frequency (MHz)		Q Typ.	SRF (MHz) Min.	DCR (Ohm) Max.	IDC (A) Max.
			L	Q				
GNLT453232PQ-1R0□	1.00	K	1.00	7.96	40	200.0	0.28	0.600
GNLT453232PQ-2R2□	2.20	K	1.00	7.96	40	90.0	0.43	0.480
GNLT453232PQ-3R3□	3.30	K	1.00	7.96	40	60.0	0.55	0.430
GNLT453232PQ-4R7□	4.70	K	1.00	7.96	40	40.0	0.65	0.390
GNLT453232PQ-6R8□	6.80	K	1.00	7.96	40	35.0	0.78	0.360
GNLT453232PQ-8R2□	8.20	K	1.00	7.96	40	30.0	0.92	0.330
GNLT453232PQ-100□	10.00	K	1.00	7.96	40	28.0	0.98	0.320
GNLT453232PQ-150□	15.00	K	0.10	2.52	30	21.0	1.25	0.280
GNLT453232PQ-220□	22.00	K	0.10	2.52	30	16.0	1.45	0.260
GNLT453232PQ-330□	33.00	J,K	0.10	2.52	30	13.0	1.85	0.230
GNLT453232PQ-470□	47.00	J,K	0.10	2.52	30	12.0	2.30	0.210
GNLT453232PQ-560□	56.00	J,K	0.10	2.52	30	11.0	2.50	0.200
GNLT453232PQ-680□	68.00	J,K	0.10	2.52	30	10.0	2.80	0.190
GNLT453232PQ-820□	82.00	J,K	0.10	2.52	30	9.0	3.20	0.175

* **Tolerance Code** : □ J=+/-5%, K=+/-10%

* **IDC**: The coil is energized according to the specification, $IDC \Delta L \leq 10\%$ $\Delta T \leq 40^{\circ}C$

* The coil is energized according to the specification, and the inductance change is smaller than the initial value (according to the specification value)

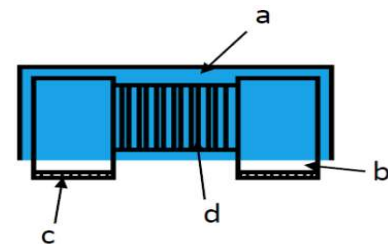
* Heat Rated Current(Irms) will cause the coil temperature rise $\Delta T(^{\circ}C)$ without core loss.

(1.)Applied the allowed DC current.

(2.)Temperature measured by digital surface thermometer.

Materials:

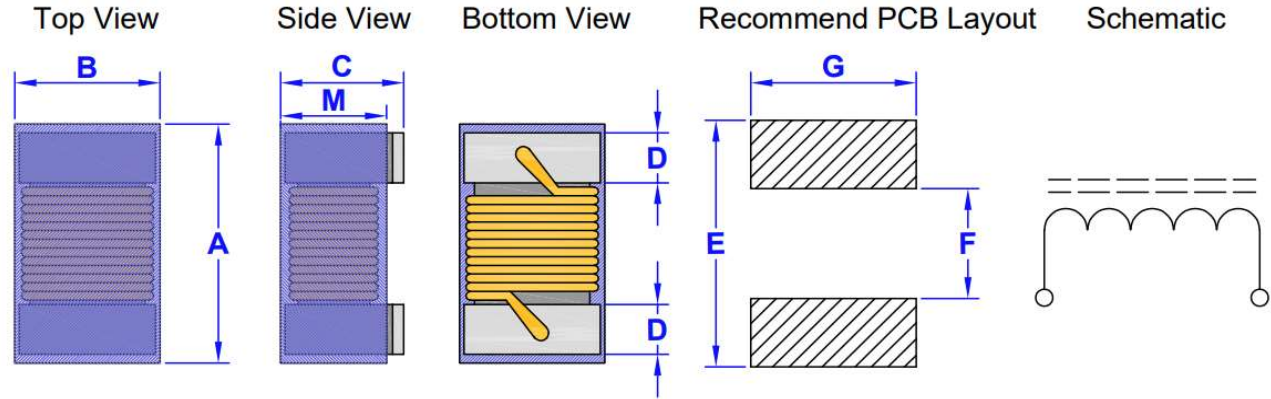
NO.	Description	Specification
a.	Upper plate	UV Glue
b.	Core	Ferrite Core
c.	Termination	Ag/Ni/Sn
d.	Wire	Enameled Copper Wire



Product Series :	GNLT	Brand :	GOTREND
File Version :	GNLT-SERIES	Editor :	Yinghui Guo
Established Date	2023.04.23	Description :	Ferrite Wire Wound Inductor
Latest Edit Date :	2024.10.30	Product Type :	☒ Standard ☐ Customize

GNLT453232PQ-SERIES

Dimension [mm] :



Size	A (+/-0.3)	B (+/-0.3)	C (+/-0.2)	M (Ref.)	D (Ref.)	E (Ref.)	F (Ref.)
453232	4.50	3.20	3.20	2.50	0.60	5.80	3.20
	G (Ref.)						
	3.60						

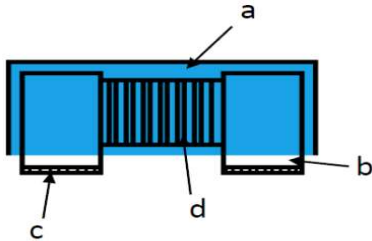
Electrical Characteristics :

Part No.	Ls (uH)	Inductance Tolerance	Frequency (MHz)		Q Typ.	SRF (MHz) Min.	DCR (Ohm) Max.	IDC (A) Max.
			L	Q				
GNLT453232PQ-101□	100.00	J,K	0.10	0.796	30	8.0	4.70	0.145
GNLT453232PQ-151□	150.00	J,K	0.10	0.796	30	8.0	6.10	0.130
GNLT453232PQ-221□	220.00	J,K	0.10	0.796	30	6.0	7.50	0.115
GNLT453232PQ-331□	330.00	J,K	0.10	0.796	30	4.5	14.10	0.085
GNLT453232PQ-471□	470.00	J,K	0.10	0.796	30	4.0	17.50	0.075
GNLT453232PQ-561□	560.00	J,K	0.10	0.796	30	3.5	23.00	0.070
GNLT453232PQ-681□	680.00	J,K	0.10	0.796	30	3.3	25.00	0.065
GNLT453232PQ-821□	820.00	J,K	0.10	0.796	30	3.0	28.00	0.060
GNLT453232PQ-102□	1000.00	J,K	0.10	0.796	30	2.8	32.00	0.055

- * **Tolerance Code :** □ J=+/-5%, K=+/-10%
- * **IDC:** The coil is energized according to the specification,IDC ΔL ≤ 10% ΔT≦40℃
- * The coil is energized according to the specification,and the inductance change is smaller than the initial value (according to the specification value)
- * Heat Rated Current(Irms) will cause the coil temperature rise Δ T(℃) without core loss.
(1.)Applied the allowed DC current.
(2.)Temperature measured by digital surface thermometer.

Materials:

NO.	Description	Specification
a.	Upper plate	UV Glue
b.	Core	Ferrite Core
c.	Temination	Ag/Ni/Sn
d.	Wire	Enameled Copper Wire



Product Series :	GNLT	Brand :	GOTREND
File Version :	GNLT-SERIES	Editor :	Yinghui Guo
Established Date	2023.04.23	Description :	Ferrite Wire Wound Inductor
Latest Edit Date :	2024.10.30	Product Type :	☒ Standard ☐ Customize

Care note :

Care note for Use :

(1) Storage Condition :

Temperature 25 to 35 °C , Humidity 45 to 60% RH

(2) Use Temperature :

- a. Minimum Temperature : -40 °C Ambient temperature of this product.
- b. Maximum Temperature : +125 °C The value of temperature including ambient and temperature rise of this product.
- c. Reliability test temperature range from -40 ~ +125 °C
- d. However, this is not meant as temperature grade guarantee for UL.

(3) Model :

When this product was used in a similar or as new product to the original one, sometimes it might be unable to satisfy the specifications due to difference in condition of usage.

(4) Drop :

If this product suffered mechanical stress such as drop, characteristics may become poor (due to damage on coil / bobbin / ferrite ... etc.)

Never use such stressed product.

Care note for Safety :

(1) Provision to Abnormal Condition :

This product itself does not have any protective function in abnormal condition such as overload, short-circuit and open-circuit conditions, etc.

Therefore, it shall be confirmed from the end product that there is no risk of smoking, fire, dielectric withstand voltage insulation resistance, etc. in abnormal conditions to provide protective devices and /or protection circuit in the end product.

(2) Temperature Rise :

Temperature rise on this product depends on the installation condition on end products.

It shall be confirmed on the actual end product that temperature rise of this product is within the specified temperature class limit.

(3) Dielectric Strength :

Dielectric withstanding test with higher voltage than specific value will damage insulating material and shorten its life.

(4) Water :

This product must not be used in wet condition resulted from water, coffee or any liquid contact because insulation strength becomes very low under such condition.

(5) Potting :

If this product is potted in some compound, coating material of magnet wire might be occasionally damaged. Please ask us if you intend to pot this product.

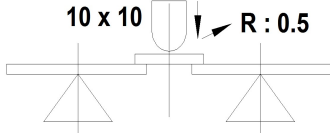
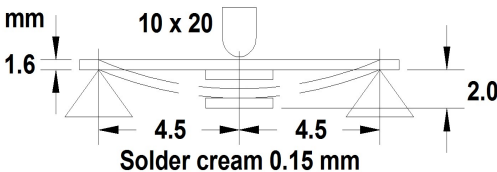
(6) Detergent :

Please consult our company immediately once under such circumstances because product reliability confirmation etc. is needed when this product come in contact with these chemicals.



Product Series :	GNLT	Brand :	GOTREND
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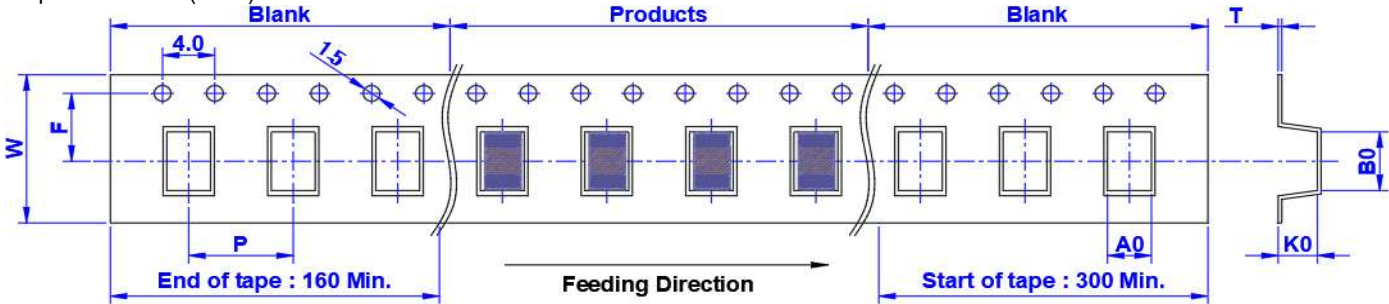
Reliability :

SN	Test Item	Test Condition			Specification
1	Dimension	Actual Size ...			Meet Spec
2	Thermal Shock (Temperature Cycle)	Temperature : -40 ~ +125 deg.C kept stabilized for 30 min. each Cycle : 100 Cycles (power off)			Elec. no variation Appearance no deformation
3	Humidity Resistance	Humidity : 90% ~ 95% RH Temperature : 60 ± 2 deg.C, Test Time : 96 ± 2 Hours			Elec. no variation Appearance no deformation
4	HighTemperature	Temperature : 125 ± 2 deg.C Testing Time : 96 ± 2 Hours			Elec. no variation Appearance no deformation
5	Low Temperature	Temperature : -40 ± 2 deg.C Time : 96 ± 2 Hours			Elec. no variation Appearance no deformation
6	Temperature and Humidity Cycle	Temperature	Humidity	Time	Elec. no variation Appearance no deformation
		25 deg.C	90% ~ 95% RH	3.0 Hr	
		55 deg.C	95% ~ 96% RH	5.0 Hr	
		25 deg.C	90% ~ 95% RH	3.0 Hr	
		Cycle : 20 Cycles			
7	Vibration	Frequency : 10Hz ~ 55Hz, Amplitude : 1.5 mm Direction : X, Y, Z, Time : 2 Hours each			Elec. no variation Appearance no deformation
8	Solderability	Go through real SMT IR-Reflow The profile like our suggest profile. Preheat : 160 ± 10 deg.C (90 sec) Peak : 245 ± 5 deg.C Peak Time : 50 Sec. / up 217 deg.C			Elec. no variation Appearance no deformation
9	Soldering Heat Resistance	Preheat : 160 ± 10 deg.C (90 sec) Solder : Sn / Ag / Cu (Pb Free) Solder Temp. : 260 ± 5 deg.C, Time : 3 ± 1 seconds			Elec. no variation Appearance no deformation
10	Iron Solder Heat Resistance	Solder Temp. : 350 ± 5 deg.C Flux : Rosin, Time : 3 ± 1 seconds			Elec. no variation Appearance no deformation
11	Bending Strength	Unit : mm  Force : 1Kg / min.			Elec. no variation Appearance no deformation
12	Flexure Strength	Unit : mm  Solder cream 0.15 mm			Elec. no variation Appearance no deformation
13	Terminal Strength	 Mount on PCB Solder Cream 0.15 mm Push 10N force to X, Y direction			Elec. no variation Appearance no deformation
14	High-Voltage	100 V DC between core & winding			Elec. no variation Appearance no deformation
15	Load life	Temperature : 25 ± 3 deg.C Load : Allowed DC Current, Test Time : 96 ± 2 Hours			Elec. no variation Appearance no deformation

Product Series :	GHLT	Brand :	GOTREND
File Version :	GHLT-SERIES	Editor :	Yinghui Guo
Established Date	2023.04.23	Description :	Ferrite Wire Wound Inductor
Latest Edit Date :	2024.10.30	Product Type :	☒ Standard ☐ Customize

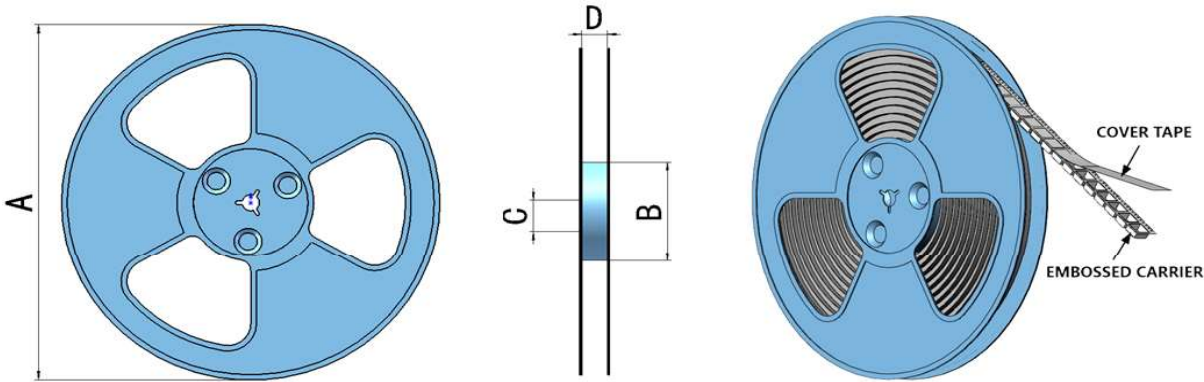
Packaging Information :

Tape Dimension (mm)



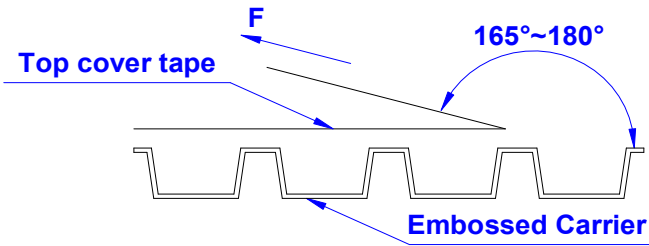
SIZE/mm	W	P	A0	B0	K0	T	F
252018	8.00	4.00	2.20	2.95	2.00	0.24	3.50
322522	8.00	4.00	2.88	3.72	2.50	0.26	3.50
453232	12.00	8.00	3.61	4.90	3.51	0.36	5.50

Reel Dimension (mm)



SIZE/mm	Reel Size	A	B	C	D	QTY / Reel
252018	7" x 8 mm	178	60	13	8.5	2,000 PCS
322522	7" x 8 mm	178	60	13	8.5	2,000 PCS
453232	7" x 12 mm	178	60	14	13.5	500 PCS

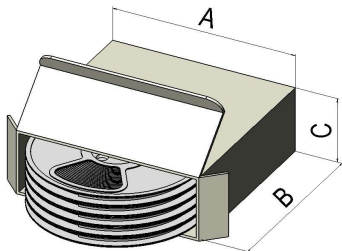
Tearing Off Force



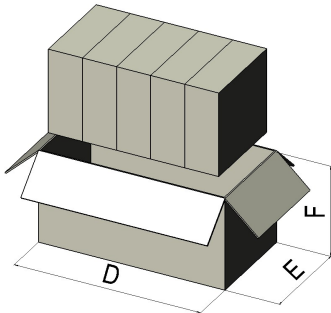
The force for tearing off cover tape is 10 to 130 grams in the arrow direction under the following conditions (referenced ANSI / EIA - 481 - D - 2008 of 4.11stadnard).

Room Temp. (°C)	Room Humidity (%)	Room Atm. (hPa)	Tearing Speed (mm / min)
5 ~ 35	45 ~ 85	860 ~ 1060	300

Box Package



7" Small Box



7" Large Box

SIZE/mm	Reels size	A	B	C	Large Box	D	E	F	Reels in Small Box (QTY)	Small Box in Large Box(QTY)
252018	7"	190	195	75	7"	408	210	220	5(10,000)	5(50,000)
322522	7"	190	195	75	7"	408	210	220	5(10,000)	5(50,000)
453232	7"	190	195	75	7"	408	210	220	5(2,500)	5(12,500)

