



<b>Product Series :</b> GTLQH	<b>Brand :</b> GOTREND
<b>File Version :</b> GTLQH-SERIES-V4R8	<b>Editor :</b> Teddy Sun
<b>Established Date :</b> 2009.07.09	<b>Description :</b> Ferrite Core Wound Inductor
<b>Latest Edit Date :</b> 2020.11.06	<b>Product Type :</b> <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

## 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 Technolgy or its official agencies. This catalogue does not apply to products that are purchased through other third parties.
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- ◆ Any reproduction or extraction of the contents in this catalog is prohibited without prior permission from GOTREND Technology.
- ◆ 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 :**

- \* High-Q value for signal line
- \* Wide band signal line,PWM circuit in/output inductor
- \* To help you go pass the CE/FCC standard.
- \* Especially for XDSL Lan & Communication



( Picture for reference only )

**Part No. Example :**

PN	:	<b>GTLQH</b>	<b>43</b>	<b>P</b>	<b>G</b>	-	<b>121</b>	<b>J</b>
-----		-----	-----	---	-----		-----	---
ID	:	1	2	3	4		5	6
1	:	GOTREND Series : GTLQH						
2	:	Size Code : 25=2.5x2.0, 43=4.5x3.2...etc.						
3	:	[ P ] : Pb Free < 1000ppm						
4	:	[ G ] : Pour Epoxy [ C ] : High Current [ L ] : Low High enhance						
5	:	[ L ] Value : Inductance Ex.:121=120uH, 122=1200uH						
6	:	[ L ] Value Tolerance: J=5%, K=10%, M=20%, N=30%						

**Basic Information :**

<b>Made in</b>	China
<b>Pin Foot</b>	SMD
<b>Shielding</b>	No
<b>J-STD-020</b>	MSL Level 1
<b>RoHS</b>	Compliant
<b>REACH</b>	Compliant
<b>Halogen</b>	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 12 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



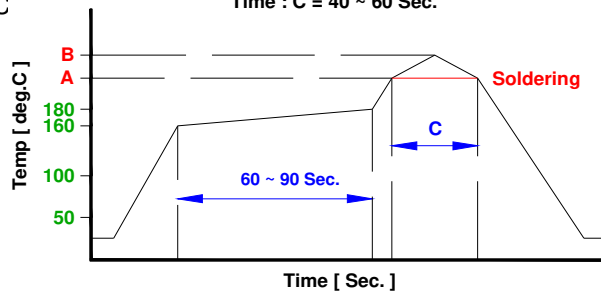
- \* Pin foot or SMD pad solderability: Pb free type is best within 6 months after delivery
- \* Humidity sensitive , IPC/JEDEC J-STD-020 MSL if over Level 1, recommend bake 30mins@150 degree before PCBA
- \* Caution for human life relative applications : PLS contact & consult with GOTREND team in design 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.

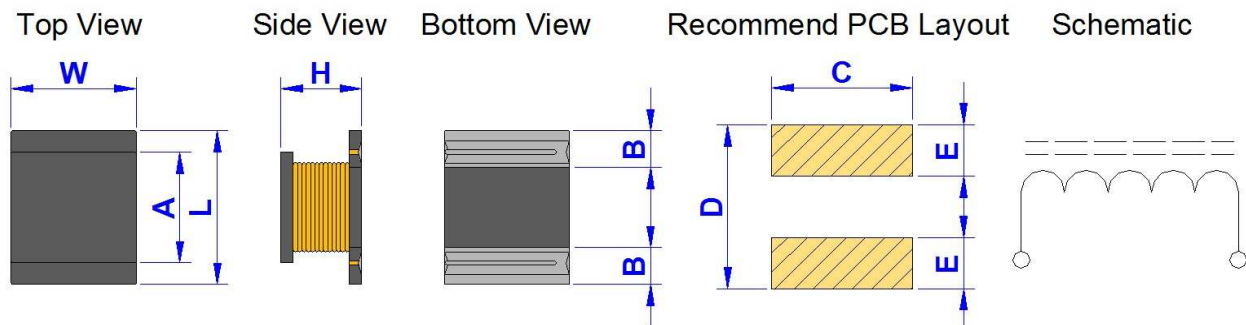


Notice : Iron Soldering , Solder < 30 Watt ,  
Direct touch the terminal x 3 Sec. Max. @ 350 deg.C

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### GTLQH20PL-SERIES

Dimension [ mm ] :



Size	L(+/-0.2)	W(+/-0.2)	H(Max.)	A(+/-0.2)	B(Ref.)	C(Ref.)	D(Ref.)	E(Ref.)
20L	2.0	1.6	1.05	2.0	0.4~0.8	2.0	2.7	1.0

Electrical Characteristics :

Part No.	L (uH)	Test Freq. (MHz / 0.2V)	DCR Ohm (Max.)	Isat (Amp) (Typ.)	Irms (Amp) (Typ.)
GTLQH20PL-1R0 <input type="checkbox"/>	1.00	1.00	0.180	1.70	1.42
GTLQH20PL-1R5 <input type="checkbox"/>	1.50	1.00	0.250	1.30	1.34
GTLQH20PL-2R2 <input type="checkbox"/>	2.20	1.00	0.340	1.10	1.04
GTLQH20PL-3R3 <input type="checkbox"/>	3.30	1.00	0.435	0.98	0.90
GTLQH20PL-4R7 <input type="checkbox"/>	4.70	1.00	0.590	0.82	0.72
GTLQH20PL-5R6 <input type="checkbox"/>	5.60	1.00	0.740	0.74	0.68
GTLQH20PL-6R8 <input type="checkbox"/>	6.80	1.00	0.840	0.67	0.62
GTLQH20PL-100 <input type="checkbox"/>	10.00	1.00	1.200	0.58	0.58
GTLQH20PL-150 <input type="checkbox"/>	15.00	1.00	1.800	0.41	0.43
GTLQH20PL-220 <input type="checkbox"/>	22.00	1.00	2.680	0.38	0.40

\* L value Tolerance : M = 20% , N = 30%

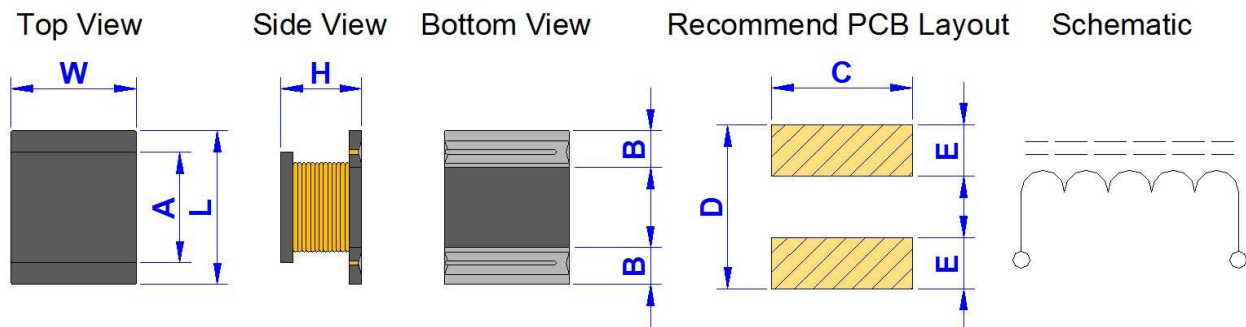
\* Isat : Inductance drop 10% from its value without current.

\* Irms : for a 40 deg.C rise above 25 deg.C ambient.

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## GTLQH20P-SERIES

**Dimension [ mm ] :**



Size	L(+/-0.3)	W(+/-0.3)	H(+/-0.4)	A(+/-0.3)	B(Ref.)	C(Ref.)	D(Ref.)	E(Ref.)
20	2.1	1.5	1.4	2.0	0.4~0.8	1.8	2.5	0.7

**Electrical Characteristics :**

Part No.	L(uH) Tolerance 10%	Test Freq. KHz	DCR Ohm (Max.)	IDC (Amp) (Max.)
GTLQH20P-R10M	0.10	100.00	0.018	4.24
GTLQH20P-R12M	0.12	100.00	0.022	3.97
GTLQH20P-R15M	0.15	100.00	0.023	3.87
GTLQH20P-R18M	0.18	100.00	0.029	3.10
GTLQH20P-R22M	0.22	100.00	0.034	3.07
GTLQH20P-R27M	0.27	100.00	0.042	2.46
GTLQH20P-R33M	0.33	100.00	0.048	2.07
GTLQH20P-R39M	0.39	100.00	0.059	1.61
GTLQH20P-R47M	0.47	100.00	0.068	1.53
GTLQH20P-R56M	0.56	100.00	0.091	1.48
GTLQH20P-R68M	0.68	100.00	0.101	1.37
GTLQH20P-R82M	0.82	100.00	0.116	1.28
GTLQH20P-1R0M	1.00	100.00	0.160	0.75
GTLQH20P-1R5M	1.50	100.00	0.247	0.70
GTLQH20P-2R0M	2.00	100.00	0.300	0.65
GTLQH20P-2R2M	2.20	100.00	0.330	0.61
GTLQH20P-2R7M	2.70	100.00	0.360	0.55
GTLQH20P-3R3M	3.30	100.00	0.500	0.50
GTLQH20P-3R9M	3.90	100.00	0.700	0.49
GTLQH20P-4R7M	4.70	100.00	0.740	0.47
GTLQH20P-6R8M	6.80	100.00	0.970	0.45
GTLQH20P-8R2M	8.20	100.00	1.490	0.40
GTLQH20P-100M	10.00	1.00	1.620	0.37
GTLQH20P-120M	12.00	1.00	1.890	0.34

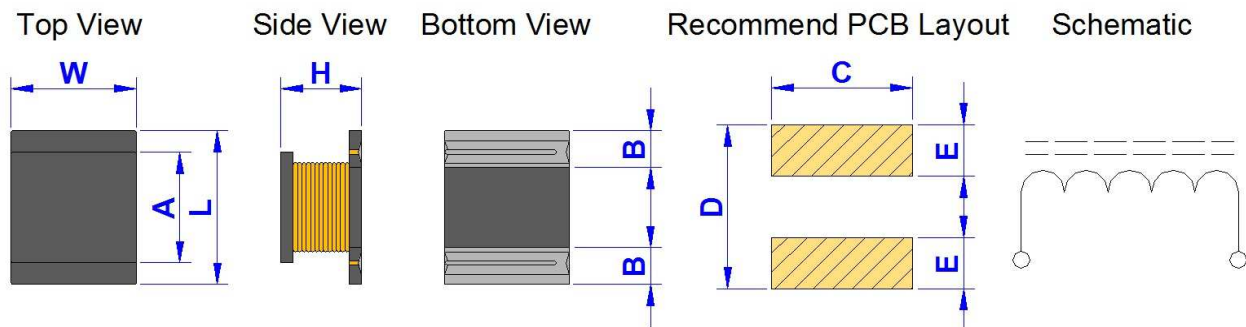
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\* IDC : Inductance drop 10% from its value without current. and for a 40 deg.C rise above 25 deg.C ambient.

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## GTLQH20P-SERIES

**Dimension [ mm ] :**



Size	L(+/-0.3)	W(+/-0.3)	H(+/-0.4)	A(+/-0.3)	B(Ref.)	C(Ref.)	D(Ref.)	E(Ref.)
20	2.1	1.5	1.4	2.0	0.4~0.8	1.8	2.5	0.7

**Electrical Characteristics :**

Part No.	L(uH) Tolerance 10%	Test Freq. KHz	DCR Ohm (Max.)	IDC (Amp) (Max.)
GTLQH20P-150□	15.00	1.00	2.170	0.32
GTLQH20P-220□	22.00	1.00	3.420	0.25
GTLQH20P-270□	27.00	1.00	4.280	0.21
GTLQH20P-330□	33.00	1.00	5.470	0.20
GTLQH20P-390□	39.00	1.00	6.290	0.17
GTLQH20P-470□	47.00	1.00	9.870	0.13
GTLQH20P-680□	68.00	1.00	12.170	0.11
GTLQH20P-820□	82.00	1.00	14.500	0.09
GTLQH20P-101□	100.00	1.00	19.620	0.08
GTLQH20P-121□	120.00	1.00	22.030	0.02

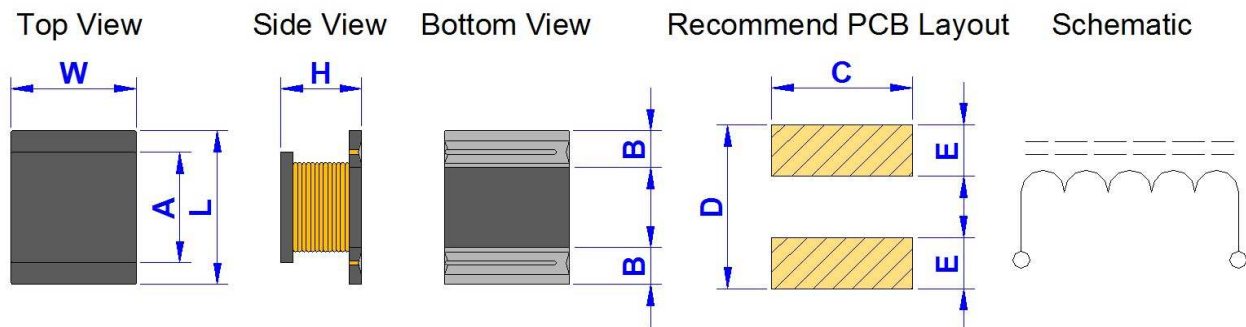
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### GTLQH25PL-SERIES

Dimension [ mm ] :



Size	L(+/-0.2)	W(+/-0.2)	H(Max.)	A(+/-0.2)	B(Ref.)	C(Ref.)	D(Ref.)	E(Ref.)
25L	2.5	2.1	1.05	2.5	0.6~1.0	2.5	3.2	1.2

Electrical Characteristics :

Part No.	L (uH)	Test Freq. (MHz / 0.2V)	DCR Ohm (Max.)	Isat (Amp) (Typ.)	Irms (Amp) (Typ.)
GTLQH25PL-1R0 <input type="checkbox"/>	1.00	1.00	0.110	2.00	1.90
GTLQH25PL-1R5 <input type="checkbox"/>	1.50	1.00	0.145	1.80	1.64
GTLQH25PL-2R2 <input type="checkbox"/>	2.20	1.00	0.230	1.40	1.60
GTLQH25PL-3R3 <input type="checkbox"/>	3.30	1.00	0.295	1.20	1.10
GTLQH25PL-4R7 <input type="checkbox"/>	4.70	1.00	0.390	1.00	1.02
GTLQH25PL-5R6 <input type="checkbox"/>	5.60	1.00	0.480	0.96	0.88
GTLQH25PL-6R8 <input type="checkbox"/>	6.80	1.00	0.605	0.84	0.82
GTLQH25PL-100 <input type="checkbox"/>	10.00	1.00	0.790	0.70	0.74
GTLQH25PL-220 <input type="checkbox"/>	22.00	1.00	1.810	0.49	0.46

\* L value Tolerance : M = 20% , N = 30%

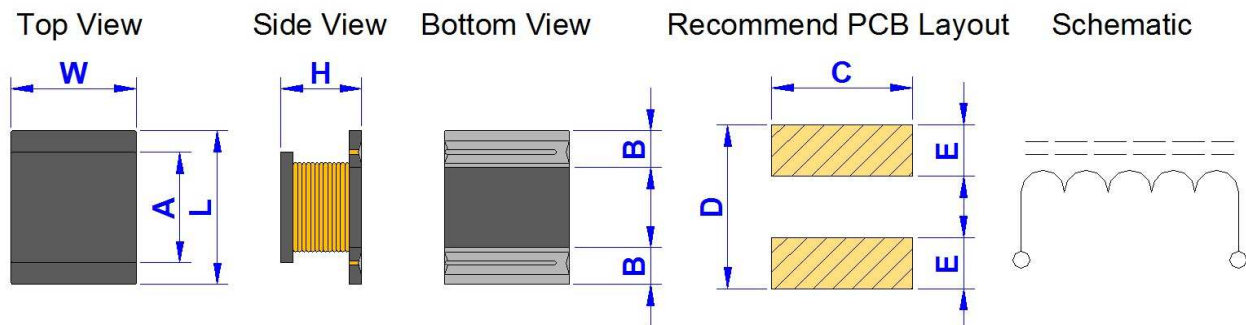
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## GTLQH25P-SERIES

**Dimension [ mm ] :**



Size	L(+/-0.3)	W(+/-0.3)	H(+/-0.4)	A(+/-0.3)	B(Ref.)	C(Ref.)	D(Ref.)	E(Ref.)
25	2.5	2.0	1.8	2.0	0.4~0.8	2.8	3.5	0.7

**Electrical Characteristics :**

Part No.	L( $\mu$ H) @1KHz/0.25V	L+/-% (best)	DCR (Ohm) (Max.)	IDC (mA) (Max.)	MARKING
GTLQH25P-R22M	0.22	20	0.032	350	G
GTLQH25P-R39M	0.39	20	0.042	330	H
GTLQH25P-1R0M	1.00	20	0.078	300	P
GTLQH25P-1R2M	1.20	20	0.090	290	Q
GTLQH25P-1R5M	1.50	20	0.100	280	S
GTLQH25P-1R8M	1.80	20	0.110	270	U
GTLQH25P-2R2M	2.20	20	0.120	250	V
GTLQH25P-2R7M	2.70	20	0.200	240	W
GTLQH25P-3R3M	3.30	20	0.240	230	X
GTLQH25P-3R9M	3.90	20	0.280	220	Z
GTLQH25P-4R7M	4.70	20	0.300	210	A1
GTLQH25P-5R6M	5.60	20	0.340	205	A2
GTLQH25P-6R8M	6.80	20	0.440	200	A3
GTLQH25P-8R2M	8.20	20	0.590	195	A5
GTLQH25P-100M,K	10.00	10 or 20	0.680	190	A6
GTLQH25P-120M,K	12.00	10 or 20	0.770	185	A8
GTLQH25P-150M,K	15.00	10 or 20	0.870	180	A9
GTLQH25P-180M,K	18.00	10 or 20	1.200	175	B1
GTLQH25P-220M,K	22.00	10 or 20	1.340	170	B2
GTLQH25P-270M,K	27.00	10 or 20	1.860	165	B3
GTLQH25P-330M,K	33.00	10 or 20	2.100	160	B5
GTLQH25P-390M,K	39.00	10 or 20	2.350	155	B6
GTLQH25P-470M,K	47.00	10 or 20	3.300	150	B7
GTLQH25P-560M,K	56.00	10 or 20	3.700	145	B8
GTLQH25P-680M,K	68.00	10 or 20	6.000	135	B9
GTLQH25P-820M,K	82.00	10 or 20	6.900	125	C1
GTLQH25P-101M,K	100.00	10 or 20	7.750	110	C2
GTLQH25P-221M,K	220.00	10 or 20	13.420	90	C3

\* L value Tolerance : K = 10% , M = 20%

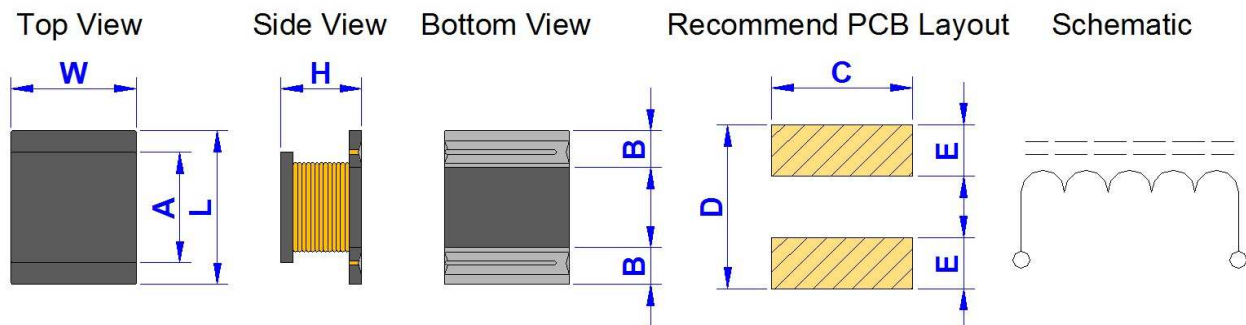
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## GTLQH31P-SERIES

**Dimension [ mm ] :**



Size	L(+/-0.3)	W(+/-0.3)	H(+/-0.4)	A(+/-0.3)	B(Ref.)	C(Ref.)	D(Ref.)	E(Ref.)
31	3.2	1.6	1.8	2.3	0.4~0.9	3.5	4.5	1.6

**Electrical Characteristics :**

Part No.	L( $\mu$ H) @1.0MHz	L+/-% (best)	Q (Ref.) Test @KHz Freq.	DCR (Ohm) (Max.)	SRF (MHz) (Min.)	IDC (mA) (Max.)
GTLQH31P-R10M	0.10	20	10@2520	0.11	200.0	185
GTLQH31P-R12M	0.12	20	10@2520	0.13	200.0	184
GTLQH31P-R22M	0.22	20	10@2520	0.14	200.0	183
GTLQH31P-R29M	0.29	20	10@2520	0.15	200.0	182
GTLQH31P-R47M	0.47	20	10@2520	0.17	200.0	178
GTLQH31P-R50M	0.50	20	10@2520	0.18	160.0	172
GTLQH31P-1R0M	1.00	20	10@1000	0.49	100.0	175
GTLQH31P-1R2M	1.20	20	10@1000	0.50	100.0	165
GTLQH31P-1R5M	1.50	20	10@1000	0.52	75.0	155
GTLQH31P-1R8M	1.80	20	10@1000	0.53	60.0	150
GTLQH31P-2R2M	2.20	20	10@1000	0.54	50.0	140
GTLQH31P-2R7K	2.70	10	10@1000	0.55	43.0	135
GTLQH31P-3R3K	3.30	10	10@1000	0.61	38.0	130
GTLQH31P-3R9K	3.90	10	10@1000	1.50	35.0	125
GTLQH31P-4R7K	4.70	10	20@1000	1.70	31.0	120
GTLQH31P-5R6K	5.60	10	20@1000	1.80	28.0	115
GTLQH31P-6R8K	6.80	10	20@1000	2.00	25.0	110
GTLQH31P-8R2K	8.20	10	20@1000	2.20	23.0	105
GTLQH31P-100K	10.00	10	25@1000	2.50	20.0	100
GTLQH31P-110K	11.00	10	25@1000	2.60	20.0	97
GTLQH31P-120K	12.00	10	25@1000	2.70	18.0	95
GTLQH31P-150K	15.00	10	25@1000	2.90	16.0	90
GTLQH31P-180K	18.00	10	25@1000	3.00	15.0	85
GTLQH31P-220K	22.00	10	25@1000	3.10	14.0	85
GTLQH31P-270K	27.00	10	25@1000	3.40	13.0	85
GTLQH31P-330K	33.00	10	25@1000	3.80	12.0	80

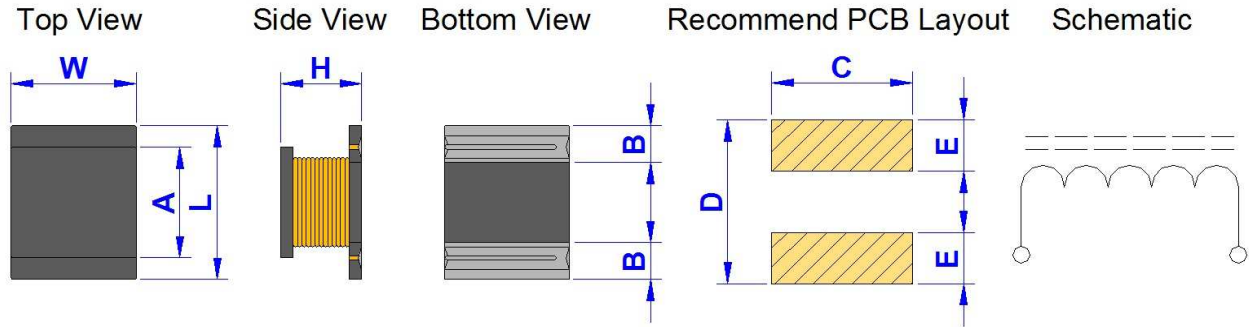
\* L value Tolerance : K = 10% , M = 20%

\* IDC : Inductance drop 10% from its value without current. and for a 40 deg.C rise above 25 deg.C ambient.

<b>Product Series :</b> GTLQH	<b>Brand :</b> GOTREND
<b>File Version :</b> GTLQH-SERIES-V4R8	<b>Editor :</b> Teddy Sun
<b>Established Date :</b> 2009.07.09	<b>Description :</b> Ferrite Core Wound Inductor
<b>Latest Edit Date :</b> 2020.11.06	<b>Product Type :</b> <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

## GTLQH31P-SERIES

**Dimension [ mm ] :**



Size	L(+/-0.3)	W(+/-0.3)	H(+/-0.4)	A(+/-0.3)	B(Ref.)	C(Ref.)	D(Ref.)	E(Ref.)
31	3.2	1.6	1.8	2.3	0.4~0.9	3.5	4.5	1.6

**Electrical Characteristics :**

Part No.	L( $\mu$ H) @1.0MHz	L+/-% (best)	Q (Ref.) Test @KHz Freq.	DCR (Ohm) (Max.)	SRF (MHz) (Min.)	IDC (mA) (Max.)
GTLQH31P-390K	39.00	10	25@1000	4.50	11.0	85
GTLQH31P-470K	47.00	10	25@1000	6.30	11.0	85
GTLQH31P-560J	56.00	5	25@1000	7.10	10.0	50
GTLQH31P-680J	68.00	5	25@1000	7.90	9.0	50
GTLQH31P-820J	82.00	5	25@1000	8.70	8.5	45
GTLQH31P-101J	100.00	5	30@796	11.57	8.0	45
GTLQH31P-111J	110.00	5	30@796	13.00	8.0	25
GTLQH31P-121J	120.00	5	30@796	14.20	7.5	20
GTLQH31P-151J	150.00	5	30@796	15.03	7.0	15
GTLQH31P-181J	180.00	5	30@796	16.60	6.0	13
GTLQH31P-221J	220.00	5	30@796	26.46	5.5	12
GTLQH31P-271J	270.00	5	30@796	29.70	5.0	11
GTLQH31P-331J	330.00	5	30@796	43.06	5.0	10
GTLQH31P-391J	390.00	5	30@796	22.00	5.0	9
GTLQH31P-471J	470@1KHZ	5	30@796	53.50	5.0	8
GTLQH31P-821J	820@1KHZ	5	30@796	66.10	5.0	5

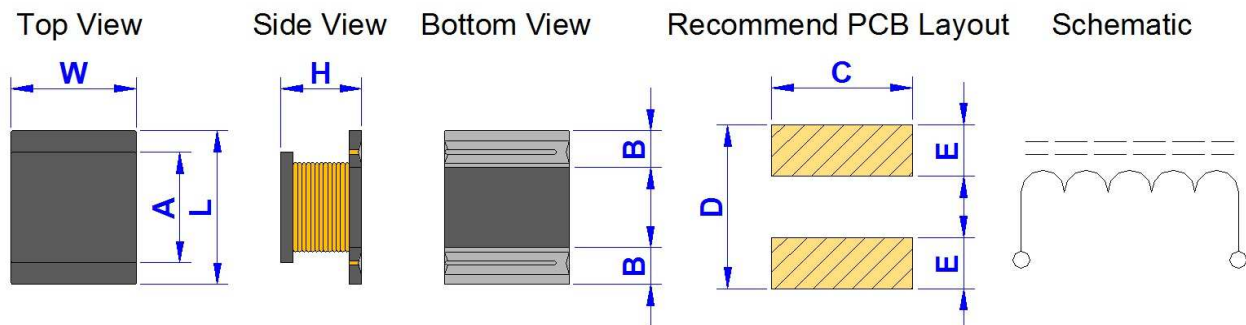
\* L value Tolerance : J = 5 , K = 10%

\* IDC : Inductance drop 10% from its value without current. and for a 40 deg.C rise above 25 deg.C ambient.

<b>Product Series :</b> GTLQH	<b>Brand :</b> GOTREND
<b>File Version :</b> GTLQH-SERIES-V4R8	<b>Editor :</b> Teddy Sun
<b>Established Date :</b> 2009.07.09	<b>Description :</b> Ferrite Core Wound Inductor
<b>Latest Edit Date :</b> 2020.11.06	<b>Product Type :</b> <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

## GTLQH32P-SERIES

**Dimension [ mm ] :**



Size	L(+/-0.3)	W(+/-0.3)	H(+/-0.4)	A(+/-0.3)	B(Ref.)	C(Ref.)	D(Ref.)	E(Ref.)
32	3.2	2.5	2.0	2.5	0.7~1.2	3.5	4.5	1.6

**Electrical Characteristics :**

Part No.	L( $\mu$ H) @1.0MHz	L+/-% (best)	Q (Ref.) Test @KHz Freq.	DCR (Ohm) (Max.)	SRF (MHz) (Min.)	IDC (mA) (Max.)
GTLQH32P-R10M	0.10	20	10@2520	0.25	200.0	700
GTLQH32P-R18M	0.18	20	10@2520	0.25	200.0	650
GTLQH32P-R27M	0.27	20	10@2520	0.25	200.0	600
GTLQH32P-R33M	0.33	20	10@2520	0.25	200.0	550
GTLQH32P-R39M	0.39	20	10@2520	0.25	200.0	530
GTLQH32P-R56M	0.56	20	10@2520	0.25	160.0	530
GTLQH32P-R68M	0.68	20	10@2520	0.25	160.0	470
GTLQH32P-R82M	0.82	20	10@2520	0.25	120.0	450
GTLQH32P-1R0M	1.00	20	10@1000	0.50	100.0	445
GTLQH32P-1R2M	1.20	20	10@1000	0.60	100.0	425
GTLQH32P-1R5M	1.50	20	10@1000	0.60	75.0	400
GTLQH32P-1R8M	1.80	20	10@1000	0.70	60.0	390
GTLQH32P-2R2M	2.20	20	10@1000	0.80	50.0	370
GTLQH32P-2R7K	2.70	10	10@1000	0.90	43.0	320
GTLQH32P-3R3K	3.30	10	10@1000	1.00	38.0	300
GTLQH32P-3R9K	3.90	10	10@1000	1.10	35.0	290
GTLQH32P-4R7K	4.70	10	20@1000	1.20	31.0	270
GTLQH32P-5R6K	5.60	10	20@1000	1.30	28.0	250
GTLQH32P-6R8K	6.80	10	20@1000	1.50	25.0	240
GTLQH32P-8R2K	8.20	10	20@1000	1.60	23.0	225
GTLQH32P-100K	10.00	10	25@1000	1.80	20.0	190
GTLQH32P-120K	12.00	10	25@1000	2.00	18.0	180
GTLQH32P-150K	15.00	10	25@1000	2.20	16.0	170
GTLQH32P-180K	18.00	10	25@1000	2.50	15.0	160
GTLQH32P-220K	22.00	10	25@1000	2.80	14.0	150
GTLQH32P-270K	27.00	10	25@1000	3.10	13.0	125

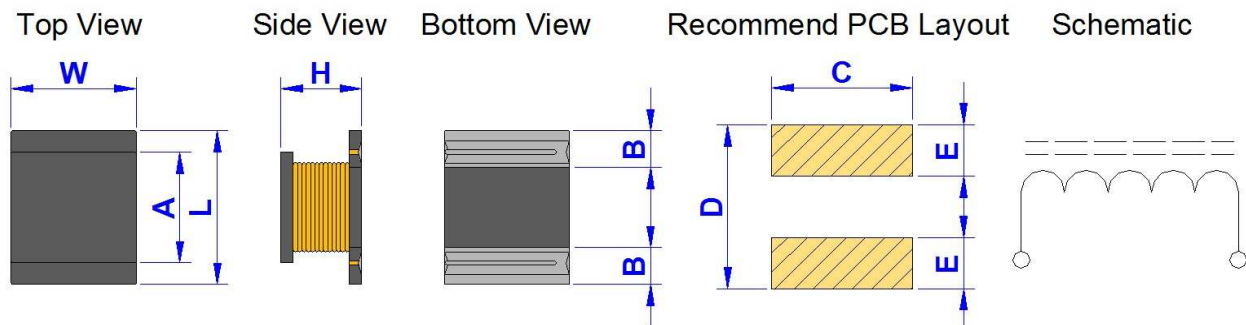
\* L value Tolerance : K = 10% , M = 20%

\* IDC : Inductance drop 10% from its value without current. and for a 40 deg.C rise above 25 deg.C ambient.

<b>Product Series :</b> GTLQH	<b>Brand :</b> GOTREND
<b>File Version :</b> GTLQH-SERIES-V4R8	<b>Editor :</b> Teddy Sun
<b>Established Date :</b> 2009.07.09	<b>Description :</b> Ferrite Core Wound Inductor
<b>Latest Edit Date :</b> 2020.11.06	<b>Product Type :</b> <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

## GTLQH32P-SERIES

**Dimension [ mm ] :**



Size	L(+/-0.3)	W(+/-0.3)	H(+/-0.4)	A(+/-0.3)	B(Ref.)	C(Ref.)	D(Ref.)	E(Ref.)
32	3.2	2.5	2.0	2.5	0.7~1.2	3.5	4.5	1.6

**Electrical Characteristics :**

Part No.	L( $\mu$ H) @1.0MHz	L+/-% (best)	Q (Ref.) Test @KHz Freq.	DCR (Ohm) (Max.)	SRF (MHz) (Min.)	IDC (mA) (Max.)
GTLQH32P-330K	33.00	10	25@1000	3.50	12.0	115
GTLQH32P-390K	39.00	10	25@1000	3.90	11.0	110
GTLQH32P-470K	47.00	10	25@1000	4.30	11.0	100
GTLQH32P-560J	56.00	5	25@1000	4.90	10.0	85
GTLQH32P-680J	68.00	5	25@1000	5.50	9.0	80
GTLQH32P-820J	82.00	5	25@1000	6.20	8.5	80
GTLQH32P-101J	100.00	5	30@796	7.00	8.0	80
GTLQH32P-121J	120.00	5	30@796	8.00	7.5	75
GTLQH32P-151J	150.00	5	30@796	9.30	7.0	70
GTLQH32P-181J	180.00	5	30@796	10.20	6.0	65
GTLQH32P-221J	220.00	5	30@796	11.80	5.5	65
GTLQH32P-271J	270.00	5	30@796	12.50	5.0	65
GTLQH32P-331J	330.00	5	30@796	13.00	5.0	65
GTLQH32P-391J	390.00	5	30@796	22.00	5.0	50
GTLQH32P-471J	470@1KHZ	5	30@796	25.00	5.0	45
GTLQH32P-501J	500@1KHZ	5	30@796	27.00	5.0	42
GTLQH32P-561J	560@1KHZ	5	30@796	28.00	5.0	40
GTLQH32P-681J	680@1KHZ	5	30@796	30.00	5.0	35
GTLQH32P-102J	1000@1KHZ	5	30@796	39.20	5.0	30

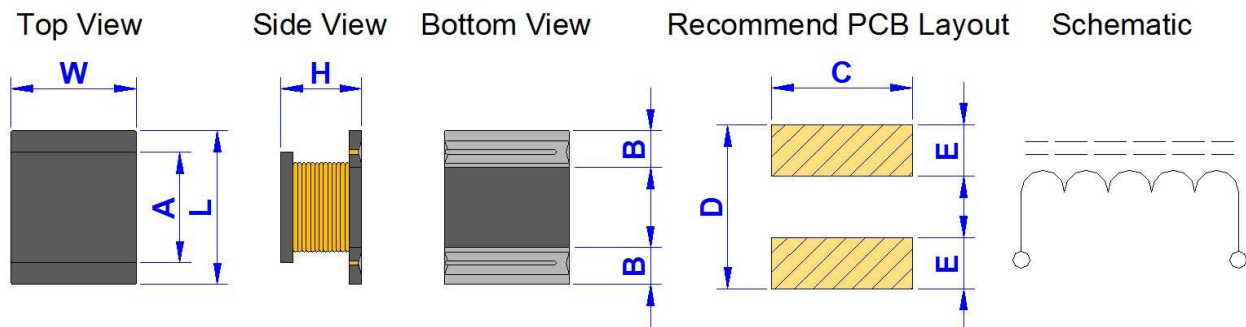
\* L value Tolerance : J = 5% , K = 10%

\* IDC : Inductance drop 10% from its value without current. and for a 40 deg.C rise above 25 deg.C ambient.

<b>Product Series :</b> GTLQH	<b>Brand :</b> GOTREND
<b>File Version :</b> GTLQH-SERIES-V4R8	<b>Editor :</b> Teddy Sun
<b>Established Date :</b> 2009.07.09	<b>Description :</b> Ferrite Core Wound Inductor
<b>Latest Edit Date :</b> 2020.11.06	<b>Product Type :</b> <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

### GTLQH32PC-SERIES

Dimension [ mm ] :



Size	L(+/-0.3)	W(+/-0.3)	H(+/-0.4)	A(+/-0.3)	B(Ref.)	C(Ref.)	D(Ref.)	E(Ref.)
32	3.2	2.5	2.0	2.5	0.7~1.2	3.5	4.5	1.6

Electrical Characteristics :

Part No.	L(uH)	L.+/% (best)	L-Test @ Freq.	DCR (Ohm) (Max.)	SRF (MHz) (Min. / Typ.)	IDC (mA) (Max.)
GTLQH32PC-R47M-T	0.47	20	1.0MHz	0.038	100 / 200	2,290
GTLQH32PC-1R0M-T	1.0	20	1.0MHz	0.078	100 / 200	1,000
GTLQH32PC-2R2M-T	2.2	20	1.0MHz	0.126	64 / 120	790
GTLQH32PC-4R7M-T	4.7	20	1.0MHz	0.195	43 / 77	650
GTLQH32PC-100K -T	10.0	10	1.0MHz	0.390	26 / 50	450
GTLQH32PC-1R0M	1.0	20	1.0MHz	0.117	100 / 150	800
GTLQH32PC-1R8M	1.8	20	1.0MHz	0.140	64 / 100	780
GTLQH32PC-2R2M	2.2	20	1.0MHz	0.169	64 / 100	600
GTLQH32PC-3R3M	3.3	20	1.0MHz	0.180	54 / 100	500
GTLQH32PC-4R7M	4.7	20	1.0MHz	0.260	43 / 66	450
GTLQH32PC-6R8M	6.8	20	1.0MHz	0.350	30 / 45	380
GTLQH32PC-100K	10.0	10	1.0MHz	0.572	26 / 40	300
GTLQH32PC-220K	22.0	10	1.0MHz	0.923	19 / 27	250
GTLQH32PC-330K	33.0	10	1.0MHz	1.350	17 / 22	220
GTLQH32PC-470K	47.0	10	1.0MHz	1.690	15 / 19	170
GTLQH32PC-101K	100.0	10	1.0MHz	4.550	10 / 13	100
GTLQH32PC-221K	220.0	10	1.0MHz	10.920	6.8 / 8.5	70
GTLQH32PC-331K	330.0	10	1.0MHz	13.000	5.6 / 7.0	60
GTLQH32PC-391K	390.0	10	1.0MHz	22.100	5 / 6.6	60
GTLQH32PC-471K	470.0	10	1.0KHz	24.700	5 / 6.2	60
GTLQH32PC-561K	560.0	10	1.0KHz	28.600	5 / 5.7	60

\* Attention: This 3225 size Part No with "T" means note Low DCR

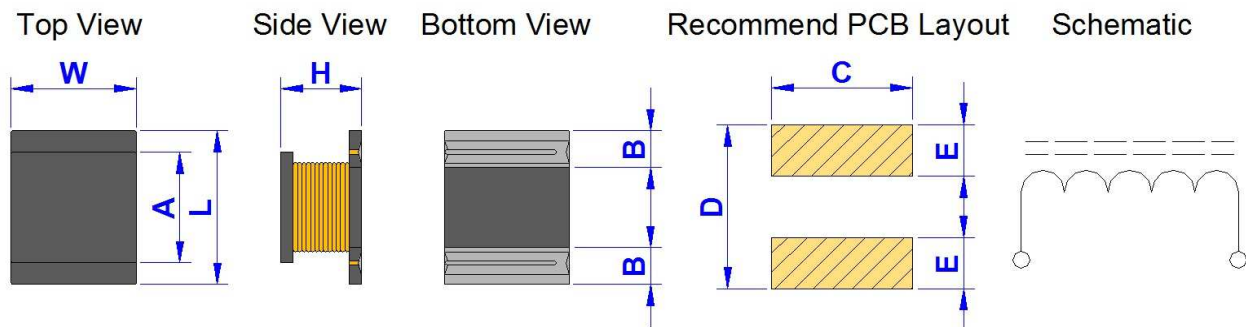
\* L value Tolerance : K = 10% , M = 20%

\* IDC : Inductance drop 10% from its value without current. and for a 40 deg.C rise above 25 deg.C ambient.

<b>Product Series :</b> GTLQH	<b>Brand :</b> GOTREND
<b>File Version :</b> GTLQH-SERIES-V4R8	<b>Editor :</b> Teddy Sun
<b>Established Date :</b> 2009.07.09	<b>Description :</b> Ferrite Core Wound Inductor
<b>Latest Edit Date :</b> 2020.11.06	<b>Product Type :</b> <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

### GTLQH32PL-SERIES

Dimension [ mm ] :



Size	L(+/-0.3)	W(+/-0.3)	H(+/-0.2)	A(+/-0.3)	B(Ref.)	C(Ref.)	D(Ref.)	E(Ref.)
32L	3.2	2.5	1.55	2.5	0.7~1.2	3.5	4.5	1.6

Electrical Characteristics :

Part No.	L(uH) @1.0KHZ,0.25V	L+/-% (best)	DCR (Ohm) (Max.)	IDC (A) (Max.)
GTLQH32PL-1R0 <input type="checkbox"/>	1.00 @100KHZ	20	0.060	1.480
GTLQH32PL-1R4 <input type="checkbox"/>	1.40 @100KHZ	20	0.079	1.380
GTLQH32PL-1R8 <input type="checkbox"/>	1.80 @100KHZ	20	0.101	1.310
GTLQH32PL-2R2 <input type="checkbox"/>	2.20 @100KHZ	20	0.125	1.250
GTLQH32PL-3R3 <input type="checkbox"/>	3.30 @100KHZ	20	0.160	1.080
GTLQH32PL-4R7 <input type="checkbox"/>	4.70 @100KHZ	20	0.236	0.980
GTLQH32PL-5R6 <input type="checkbox"/>	5.60 @100KHZ	20	0.287	0.900
GTLQH32PL-6R8 <input type="checkbox"/>	6.80 @100KHZ	20	0.371	0.790
GTLQH32PL-8R2 <input type="checkbox"/>	8.20 @100KHZ	20	0.471	0.720
GTLQH32PL-100 <input type="checkbox"/>	10.00	10	0.576	0.660
GTLQH32PL-120 <input type="checkbox"/>	12.00	10	0.684	0.590
GTLQH32PL-150 <input type="checkbox"/>	15.00	10	0.888	0.540
GTLQH32PL-180 <input type="checkbox"/>	18.00	10	1.087	0.480
GTLQH32PL-220 <input type="checkbox"/>	22.00	10	1.343	0.430
GTLQH32PL-330 <input type="checkbox"/>	33.00	10	2.245	0.350
GTLQH32PL-470 <input type="checkbox"/>	47.00	10	3.064	0.290
GTLQH32PL-560 <input type="checkbox"/>	56.00	10	4.120	0.270
GTLQH32PL-680 <input type="checkbox"/>	68.00	10	5.289	0.240
GTLQH32PL-820 <input type="checkbox"/>	82.00	10	7.223	0.200
GTLQH32PL-101 <input type="checkbox"/>	100.00	10	8.209	0.190
GTLQH32PL-121 <input type="checkbox"/>	120.00	10	10.888	0.170
GTLQH32PL-151 <input type="checkbox"/>	150.00	10	12.568	0.160
GTLQH32PL-181 <input type="checkbox"/>	180.00	10	19.645	0.140
GTLQH32PL-221 <input type="checkbox"/>	220.00	10	22.307	0.130
GTLQH32PL-271 <input type="checkbox"/>	270.00	10	24.613	0.120
GTLQH32PL-331 <input type="checkbox"/>	330.00	10	28.213	0.110

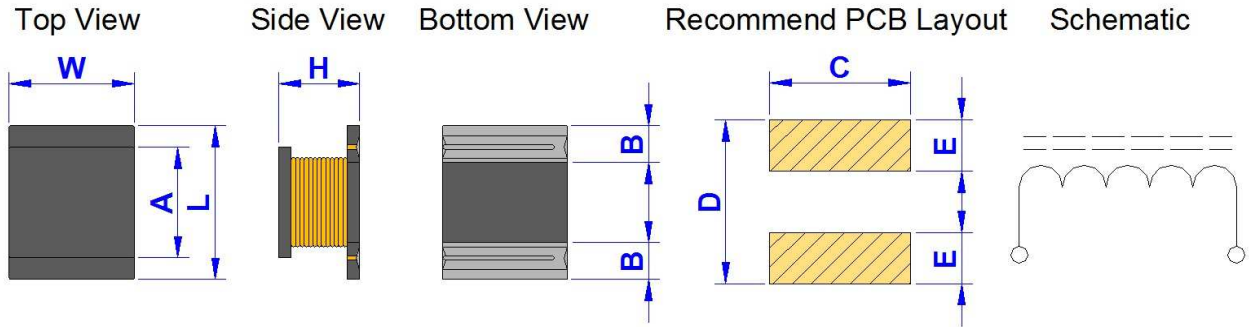
\* L value Tolerance : J = 5% , K = 10% , M = 20%

\* IDC : Inductance drop 10% from its value without current. and for a 40 deg.C rise above 25 deg.C ambient.

<b>Product Series :</b> GTLQH	<b>Brand :</b> GOTREND
<b>File Version :</b> GTLQH-SERIES-V4R8	<b>Editor :</b> Teddy Sun
<b>Established Date :</b> 2009.07.09	<b>Description :</b> Ferrite Core Wound Inductor
<b>Latest Edit Date :</b> 2020.11.06	<b>Product Type :</b> <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

### GTLQH32PL-SERIES

Dimension [ mm ] :



Size	L(+/-0.3)	W(+/-0.3)	H(+/-0.2)	A(+/-0.3)	B(Ref.)	C(Ref.)	D(Ref.)	E(Ref.)
32L	3.2	2.5	1.55	2.5	0.7~1.2	3.5	4.5	1.6

Electrical Characteristics :

Part No.	L(uH) @1.0KHz,0.25V	L+/-% (best)	DCR (Ohm) (Max.)	IDC (A)(Max.) $\Delta L/L(0A)=10\%$
GTLQH32PL-391 <input type="checkbox"/>	390.00	10	32.187	0.100
GTLQH32PL-471 <input type="checkbox"/>	470.00	10	48.747	0.090
GTLQH32PL-561 <input type="checkbox"/>	560.00	5	53.893	0.080
GTLQH32PL-681 <input type="checkbox"/>	680.00	5	63.013	0.070

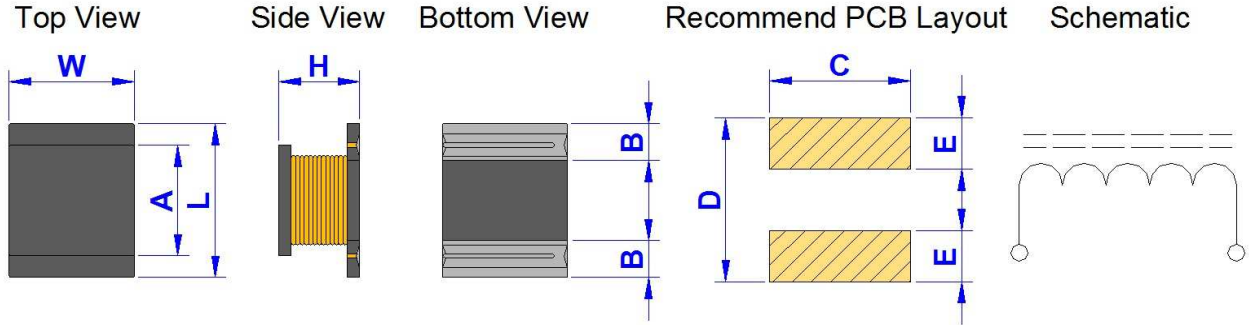
\* L value Tolerance : J = 5% , K = 10% , M = 20%

\* IDC : Inductance drop 10% from its value without current. and for a 40 deg.C rise above 25 deg.C ambient.

<b>Product Series :</b> GTLQH	<b>Brand :</b> GOTREND
<b>File Version :</b> GTLQH-SERIES-V4R8	<b>Editor :</b> Teddy Sun
<b>Established Date :</b> 2009.07.09	<b>Description :</b> Ferrite Core Wound Inductor
<b>Latest Edit Date :</b> 2020.11.06	<b>Product Type :</b> <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

## GTLQH43PC-SERIES

**Dimension [ mm ] :**



Size	L(+/-0.3)	W(+/-0.3)	H(+/-0.4)	A(+/-0.3)	B(Ref.)	C(Ref.)	D(Ref.)	E(Ref.)
43	4.5	3.2	2.6	3.6	1.0~1.8	4.2	5.5	2.3

**Electrical Characteristics :**

Part No.	L(uH) @1.0MHz	L+/-% (best)	DCR (Ohm) (Max.)	IDC (mA) (Max.)
GTLQH43PC-1R0 <input type="checkbox"/>	1.00	20	0.08	1,080
GTLQH43PC-1R5 <input type="checkbox"/>	1.50	20	0.09	1,000
GTLQH43PC-2R2 <input type="checkbox"/>	2.20	20	0.11	900
GTLQH43PC-3R3 <input type="checkbox"/>	3.30	20	0.13	800
GTLQH43PC-4R7 <input type="checkbox"/>	4.70	20	0.15	750
GTLQH43PC-6R8 <input type="checkbox"/>	6.80	20	0.20	720
GTLQH43PC-100 <input type="checkbox"/>	10.00	10	0.24	650
GTLQH43PC-150 <input type="checkbox"/>	15.00	10	0.32	570
GTLQH43PC-220 <input type="checkbox"/>	22.00	10	0.60	420
GTLQH43PC-330 <input type="checkbox"/>	33.00	10	1.00	310
GTLQH43PC-470 <input type="checkbox"/>	47.00	10	1.10	280
GTLQH43PC-560 <input type="checkbox"/>	56.00	10	1.34	260
GTLQH43PC-680 <input type="checkbox"/>	68.00	10	1.70	220
GTLQH43PC-101 <input type="checkbox"/>	100.00	5	2.20	190
GTLQH43PC-151 <input type="checkbox"/>	150.00	5	3.50	130
GTLQH43PC-221 <input type="checkbox"/>	220.00	5	4.00	110
GTLQH43PC-331 <input type="checkbox"/>	330.00	5	6.80	100
GTLQH43PC-471 <input type="checkbox"/>	470.00	5	8.50	90

\* L value Tolerance : J = 5% , K = 10% , M = 20%

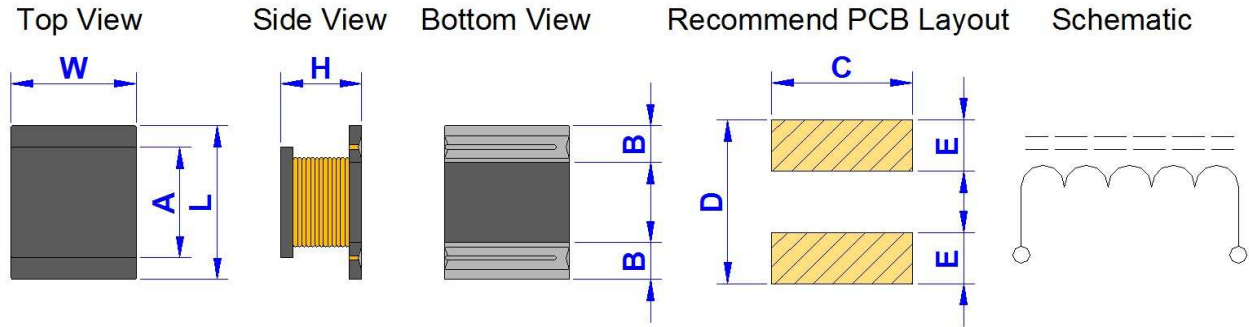
\* IDC : Inductance drop 10% from its value without current. and for a 40 deg.C rise above 25 deg.C ambient.



<b>Product Series :</b> GTLQH	<b>Brand :</b> GOTREND
<b>File Version :</b> GTLQH-SERIES-V4R8	<b>Editor :</b> Teddy Sun
<b>Established Date :</b> 2009.07.09	<b>Description :</b> Ferrite Core Wound Inductor
<b>Latest Edit Date :</b> 2020.11.06	<b>Product Type :</b> <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

## GTLQH56P-SERIES

Dimension [ mm ] :



Size	L(+/-0.3)	W(+/-0.3)	H(+/-0.4)	A(+/-0.3)	B(Ref.)	C(Ref.)	D(Ref.)	E(Ref.)
56	5.7	5.0	4.7	5.0	1.1~1.9	6.5	7.0	2.5

Electrical Characteristics :

Part No.	L(uH) @1.0MHz	L+/-% (best)	DCR (Ohm) (Max.)	IDC (mA) (Max.)
GTLQH56P-R12 <input type="checkbox"/>	0.12	30	0.010	6000
GTLQH56P-R27 <input type="checkbox"/>	0.27	30	0.014	5300
GTLQH56P-R47 <input type="checkbox"/>	0.47	30	0.018	4800
GTLQH56P-1R0 <input type="checkbox"/>	1.00	30	0.027	4000
GTLQH56P-1R5 <input type="checkbox"/>	1.50	20	0.031	3700
GTLQH56P-2R2 <input type="checkbox"/>	2.20	20	0.041	3200
GTLQH56P-3R3 <input type="checkbox"/>	3.30	20	0.050	2900
GTLQH56P-4R7 <input type="checkbox"/>	4.70	20	0.057	2700
GTLQH56P-6R8 <input type="checkbox"/>	6.80	20	0.10	2000
GTLQH56P-100 <input type="checkbox"/>	10.00	10	0.13	1700
GTLQH56P-120 <input type="checkbox"/>	12.00	10	0.20	1500
GTLQH56P-150 <input type="checkbox"/>	15.00	10	0.21	1400
GTLQH56P-220 <input type="checkbox"/>	22.00	10	0.27	1200
GTLQH56P-240 <input type="checkbox"/>	24.00	10	0.29	1100
GTLQH56P-270 <input type="checkbox"/>	27.00	10	0.30	1000
GTLQH56P-330 <input type="checkbox"/>	33.00	10	0.45	900
GTLQH56P-470 <input type="checkbox"/>	47.00	10	0.56	800
GTLQH56P-680 <input type="checkbox"/>	68.00	10	0.94	640
GTLQH56P-101 <input type="checkbox"/>	100.00	10	1.20	560
GTLQH56P-151 <input type="checkbox"/>	150.00	10	2.66	420
GTLQH56P-221 <input type="checkbox"/>	220.00	10	3.36	320
GTLQH56P-331 <input type="checkbox"/>	330.00	10	6.16	270

\* L value Tolerance : K = 10% , M = 20% , N = 30%

\* IDC : Inductance drop 10% from its value without current. and for a 40 deg.C rise above 25 deg.C ambient.

<b>Product Series :</b> GTLQH	<b>Brand :</b> GOTREND
<b>File Version :</b> GTLQH-SERIES-V4R8	<b>Editor :</b> Teddy Sun
<b>Established Date :</b> 2009.07.09	<b>Description :</b> Ferrite Core Wound Inductor
<b>Latest Edit Date :</b> 2020.11.06	<b>Product Type :</b> <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

#### Care note :

Care note for Use :

(1) Storage Condition :

Temperature 25 to 35 deg.C , Humidity 45 to 60% RH

(2) Use Temperature :

- a. Minimum Temperature : -40 deg.C Ambient temperature of this product.
- b. Maximum Temperature : +125 deg.C The value of temperature including ambient and temperature rise of this product.
- c. Reliability test temperature range from -40 ~ +125 deg.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 :

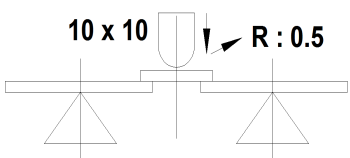
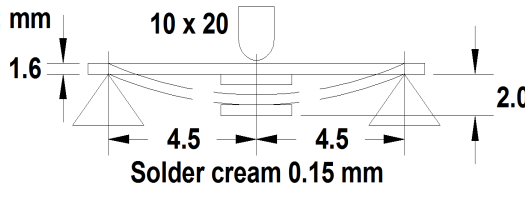
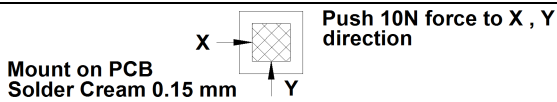
If this product is potted in some compound, coating material of magnet wire might be occasionally damaged. Please ask us if you intend to pot this product.

(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.

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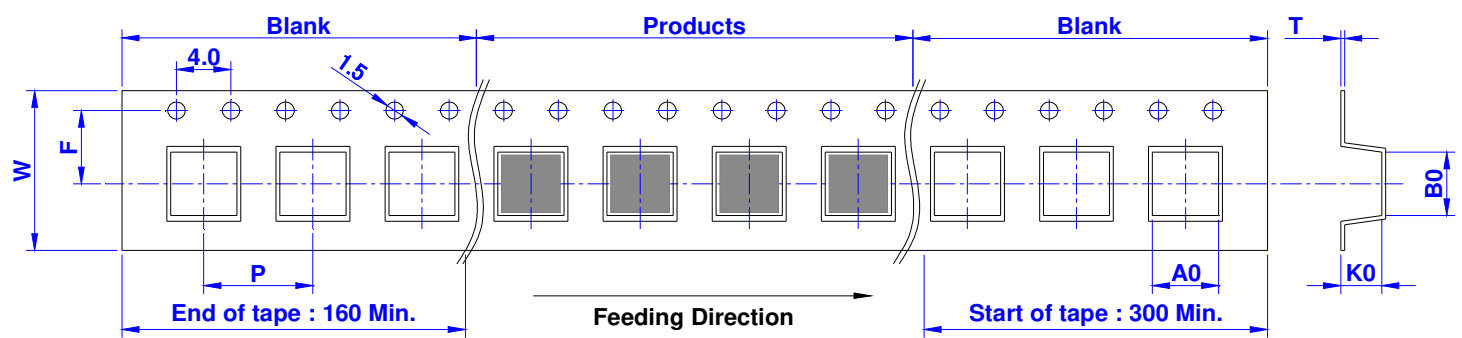
**Reliability :**

SN	Test Item	Test Condition	Specification		
1	<b>Dimension</b>	Actual Size ...	Meet Spec		
2	<b>Thermal Shock (Temperature Cycle)</b>	Temperature : -40 ~ +125 deg.C kept stabilized for 30 min. each Cycle : 100 Cycles ( power off )	Elec. no variation Appearance no deformation		
3	<b>Humidity Resistance</b>	Humidity : 90% ~ 95% RH Temperature : 60 ± 2 deg.C · Test Time : 96 ± 2 Hours	Elec. no variation Appearance no deformation		
4	<b>High Temperature</b>	Temperature : 125 ± 2 deg.C Testing Time : 96 ± 2 Hours	Elec. no variation Appearance no deformation		
5	<b>Low Temperature</b>	Temperature : -40 ± 2 deg.C Time : 96 ± 2 Hours	Elec. no variation Appearance no deformation		
6	<b>Temperature and Humidity Cycle</b>	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	<b>Vibration</b>	Frequency : 10Hz ~ 55Hz · Amplitude : 1.5 mm Direction : X · Y · Z · Time : 2 Hours each	Elec. no variation Appearance no deformation		
8	<b>Solderability</b>	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	<b>Soldering Heat Resistance</b>	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	<b>Iron Solder Heat Resistance</b>	Solder Temp. : 350 ± 5 deg.C Flux : Rosin · Time : 3 ± 1 seconds	Elec. no variation Appearance no deformation		
11	<b>Bending Strength</b>	Unit : mm  Force : 1Kg / min.	Elec. no variation Appearance no deformation		
12	<b>Flexure Strength</b>	Unit : mm  Solder cream 0.15 mm	Elec. no variation Appearance no deformation		
13	<b>Terminal Strength</b>	 Mount on PCB Solder Cream 0.15 mm Push 10N force to X , Y direction	Elec. no variation Appearance no deformation		
14	<b>High-Voltage</b>	100 V DC between core & winding	Elec. no variation Appearance no deformation		
15	<b>Load life</b>	Temperature : 25 ± 3 deg.C Load : Allowed DC Current · Test Time : 96 ± 2 Hours	Elec. no variation Appearance no deformation		

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<b>Latest Edit Date :</b> 2020.11.06	<b>Product Type :</b> <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

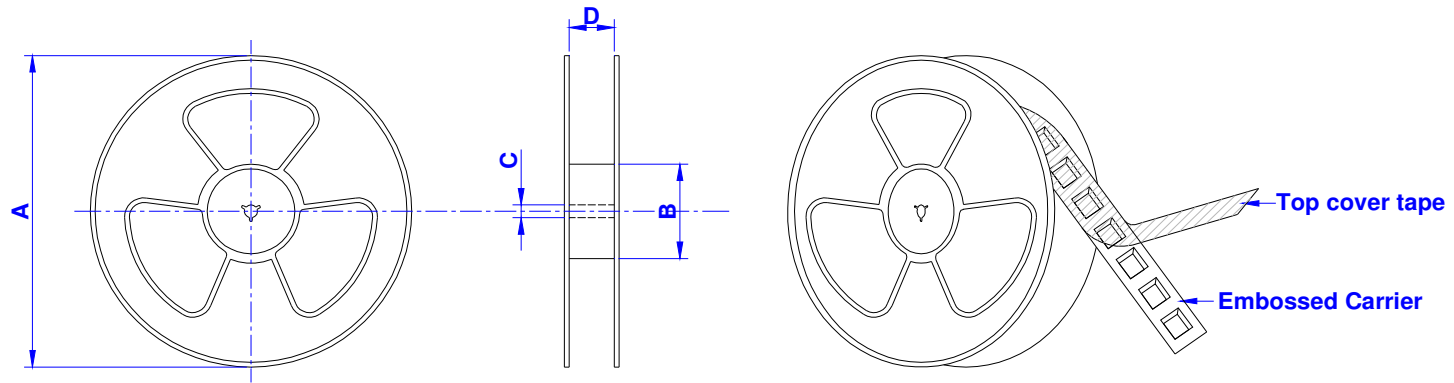
**Packaging Information :**

Tape Dimension ( mm ) :



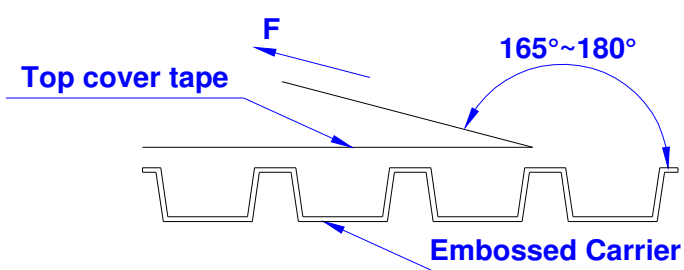
SIZE/mm	W	P	A0	B0	K0	T	F
20	8.00	4.00	2.70	2.75	2.00	0.22	3.50
25	8.00	4.00	2.70	2.75	2.00	0.22	3.50
31	12.00	8.00	2.00	3.60	2.20	0.22	5.50
32 / 32L	12.00	8.00	2.90	3.60	2.20	0.22	5.50
43	12.00	8.00	3.60	4.90	3.10	0.30	4.70
56	16.00	12.00	7.60	8.40	5.50	0.40	5.20

Reel Dimension ( mm ) :



SIZE/mm	Reel Size	A	B	C	D	QTY / Reel
20	7" x 8 mm	178	60	13	8.5	2000 PCS
25	7" x 8 mm	178	60	13	8.5	2000 PCS
25L	7" x 8 mm	178	60	13	8.5	2000 PCS
31	13" x 12 mm	330	100	13	12.5	3000 PCS
32 / 32L	13" x 12 mm	330	100	13	12.5	2500 PCS
43	13" x 12 mm	330	100	13	12.5	2000 PCS
56	13" x 16 mm	330	100	13	16.5	1000 PCS

Tearing Off Force :



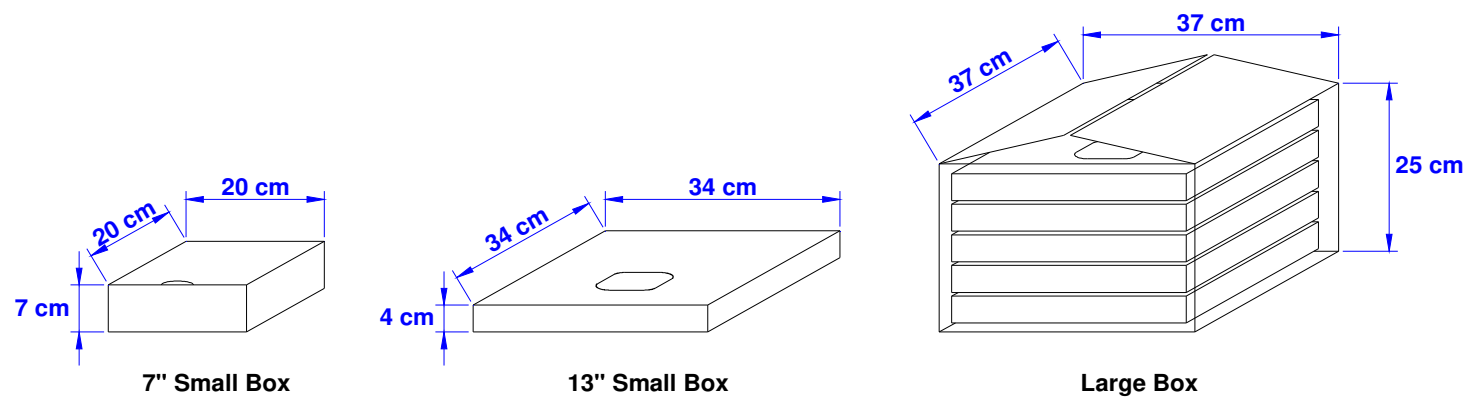
The force for tearing off cover tape is 10 to 130 grams in the arrow direction under the following conditions ( referenced ANSI / EIA - 481 - D - 2008 of 4.11 standard ).

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

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<b>Latest Edit Date :</b> 2020.11.06	<b>Product Type :</b> <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

**Packaging Information :**

Box Package :



SIZE/mm	Reels in Small Box	Small Box in Large Box
20	5	8
25	5	8
25L	5	8
31	2	5
32 / 32L	2	5
43	2	5
56	1	5