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|---------------------------|--------------------------|-----------------------|---|
| Product Series : | GTLVR | Brand : | GOTREND |
| File Version : | GTLVR-SERIES-V1R1 | Editor : | Jerry Chen |
| Established Date : | 2023.04.20 | Description : | Coupled Inductors |
| Latest Edit Date : | 2023.11.27 | Product Type : | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

REMINDERS

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- ◆ 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.
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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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SMD Power Inductor - GSTD Series Type

| Image | Part Name | A (mm) | B (mm) | C (mm) | Inductance Range (nH) | | | DCR 1-4 (mΩ) | DCR 2-3 (mΩ) | Isat 25°C (A) | Isat 100°C (A) | Irms 1-4 (A) | Irms 2-3 (A) | Page |
|---|-----------------|--------|--------|--------|-----------------------|-----|-----|--------------|--------------|---------------|----------------|--------------|--------------|------|
| | | | | | 100 | 200 | 300 | | | | | | | |
|  | GTLVR966411PVT8 | 9.6 | 6.4 | 10.5 | 100 | ■ | 200 | 0.125 | 0.33 | 50-98 | 40-83 | 75 | 40 | 5-6 |
|  | GTLVR126011PV | 11.7 | 5.7 | 11 | 105 | ■ | 200 | 0.125 | 0.37 | 50-137 | 50-106 | 77 | 45 | 7-8 |
|  | GTLVR126008PV | 11.7 | 5.7 | 7.7 | 80 | ■ | 80 | 0.1 | 0.3 | 105 | 95 | 78 | 45 | 9 |

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Features & Application :

- * PMIC multiphase voltage regulators
- * New architecture Voltage Regulator Modules (TLVR)
- * PC、Server、IPC、VRM and EVRD
- * Data networks and storage systems
- * Graphics cards, Battery power systems and PMIC control
- * Point-of-load modules (POL)
- * DCR sensing circuits



(Picture for reference only)

Part No. Example :

Basic Information :

| | | | | | | | | | | | |
|-------|---|---|----------|----------|-----------|---|------------|----------|----------|------------------|-------------|
| PN | : | GTLVR 966411 | P | V | T8 | - | R22 | L | S | Made in | China |
| ----- | | ----- | --- | --- | --- | | ----- | --- | --- | Pin Foot | SMD |
| ID | : | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Shielding | Yes |
| | | | | | | | | | | J-STD-020 | MSL Level 1 |
| 1 | : | GOTREND Series : GTLVR | | | | | | | | | |
| 2 | : | Type Size Code : 966411 = L-9.6 x W-6.4 x H-10.5 mm | | | | | | | | | |
| 3 | : | P = Pb free < 1000 ppm | | | | | | | | | |
| 4 | : | [V] : Vertical type | | | | | | | | | |
| 5 | : | [T8] : Material Code | | | | | | | | | |
| 6 | : | [L] Value : Inductance R22 = 220 nH | | | | | | | | | |
| 7 | : | [L] Tolerance : L = +/-15% | | | | | | | | | |
| 8 | : | [S] : Product Identification Number | | | | | | | | | |

| | |
|----------------|-----------|
| 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

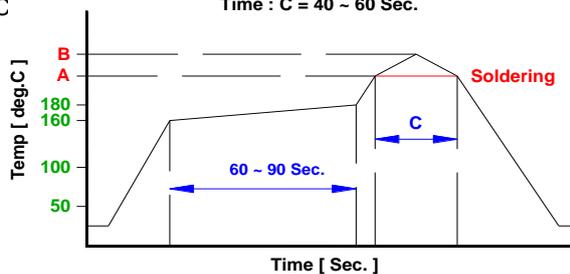
- * Pin foot or SMD pad solderability: Pb free type is best within 6 months after delivery
- * Humidity sensitive , IPC/JEDEC J-STD-020 MSL if over Level 1, recommend bake 30mins@150 degree before PCBA
- * Caution for human life relative applications : PLS contact & consult with GOTREND team in design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



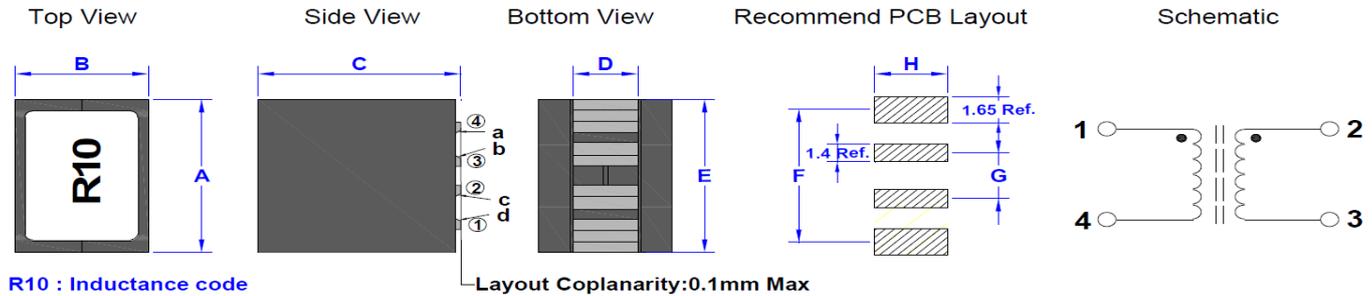
Notice : Iron Soldering , Solder < 30 Watt ,
Direct touch the terminal x 3 Sec. Max. @ 350 deg.C



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GTLVR966411PVT8-SERIES-S

Dimension [mm] :



| A (Max.) | B (Max.) | C (Max.) | D (Typ.) | E (Typ.) | F (Ref.) | G (Ref.) | H (Ref.) |
|----------|----------|----------|----------|----------|----------|----------|----------|
| 9.60 | 6.40 | 10.50 | 3.20 | 9.00 | 9.50 | 3.30 | 3.70 |

Electrical Characteristics :

| Part No. | OCL (nH) | Li (nH) | DCR (1)-(4) (mOhm) | DCR (2)-(3) (mOhm) | Isat (A) Typ. | | Irms (A) (1)-(4) | Irms (A) (2)-(3) |
|-----------------------|----------|---------|--------------------|--------------------|---------------|-------|------------------|------------------|
| | ±15% | Min. | +/-10% | +/-10% | 25°C | 100°C | Typ. | Typ. |
| GTLVR966411PVT8-R10LS | 100 | 64 | 0.125 | 0.33 | 98.0 | 83.0 | 75.0 | 40.0 |
| GTLVR966411PVT8-R12LS | 120 | 77 | 0.125 | 0.33 | 79.0 | 67.0 | 75.0 | 40.0 |
| GTLVR966411PVT8-R15LS | 150 | 96 | 0.125 | 0.33 | 62.0 | 53.0 | 75.0 | 40.0 |
| GTLVR966411PVT8-R18LS | 180 | 115 | 0.125 | 0.33 | 54.0 | 46.0 | 75.0 | 40.0 |
| GTLVR966411PVT8-R22LS | 220 | 140 | 0.125 | 0.33 | 50.0 | 40.0 | 75.0 | 40.0 |

* **Test Condition :** (1)-(4)=(2)-(3) @100KHz , 0.1Vrms , 25deg.C Ambient

* **Li is the value of the inductance :** at 25°C at the listed rated current.

* **The nominal DCR(1)-(4) :** is measured from point "d" to point "a", as shown above on the mechanical drawing (Ta=25°C).

* **The nominal DCR(2)-(3) :** is measured from point "c" to point "b", as shown above on the mechanical drawing (Ta=25°C).

* The IDC as listed is either the Isat (25°C or 100°C) or the Irms depending on which value is lower.

* **Isat (1)-(4) & Isat (2)-(3) :** DC current that will cause inductance to drop approximately by 20%.

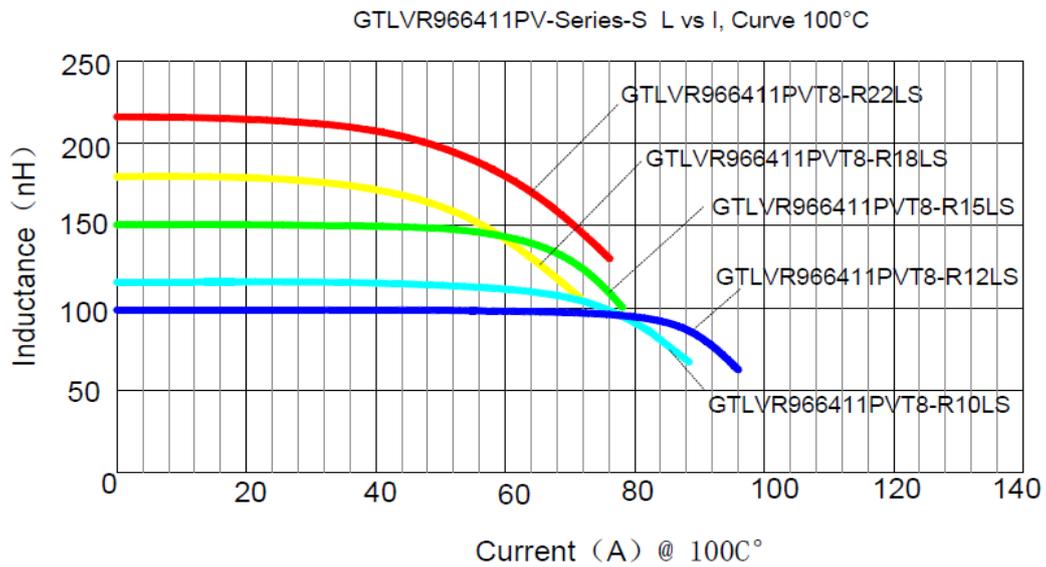
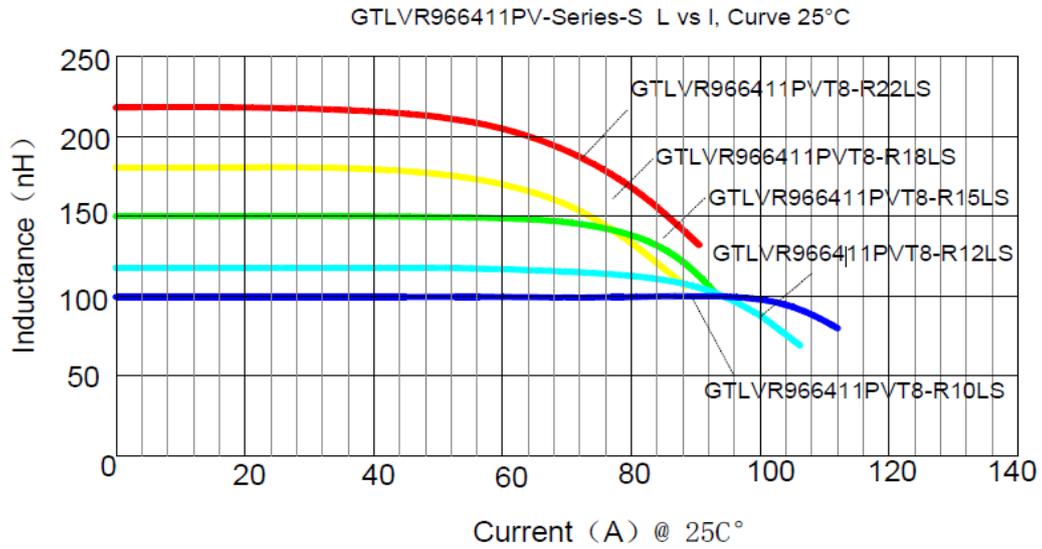
* **Irms :** Rated Current Loading when temperature rise approximately 40deg.C

* **The part temperature (ambient + temp rise) :** Should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* **High pot:** 100Vdc, 1s, 3mA

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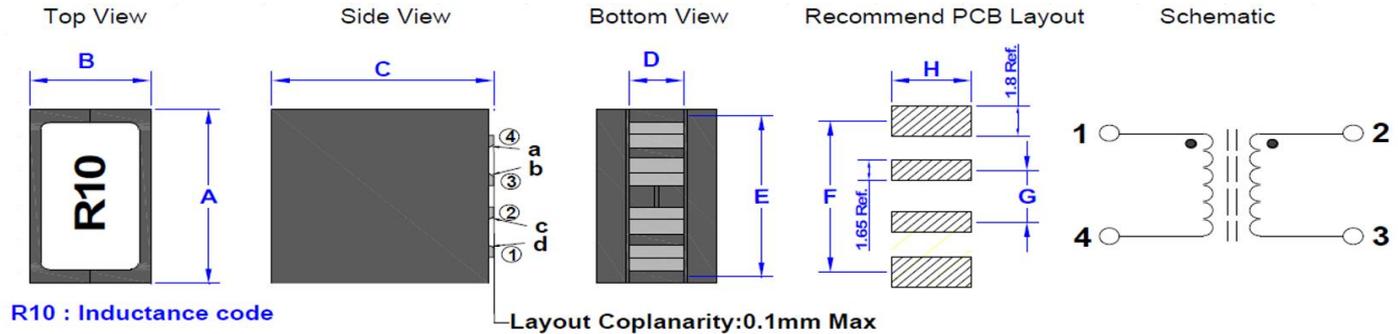
Typical Performance Curves :



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GTLVR126011PV-SERIES

Dimension [mm] :



| A (+/-0.3) | B (+/-0.3) | C (+/-0.2) | D (+/-0.3) | E (+/-0.5) | F (Ref.) | G (Ref.) | H (Ref.) |
|------------|------------|------------|------------|------------|----------|----------|----------|
| 11.70 | 5.70 | 11.00 | 2.45 | 10.10 | 10.10 | 2.65 | 2.95 |

Electrical Characteristics :

| Part No. | OCL (nH) | Li (nH) | DCR (1)-(4) (mOhm) | DCR (2)-(3) (mOhm) | Isat (A) Typ. | | Irms (A) (1)-(4) | Irms (A) (2)-(3) |
|--------------------|----------|---------|--------------------|--------------------|---------------|-------|------------------|------------------|
| | ±15% | Min. | +/-10% | +/-10% | 25°C | 100°C | Typ. | Typ. |
| GTLVR126011PV-R10L | 105 | 71.4 | 0.125 | 0.37 | 125.0 | 106.0 | 77.0 | 45.0 |
| GTLVR126011PV-R12L | 120 | 81.6 | 0.125 | 0.37 | 102.0 | 87.0 | 77.0 | 45.0 |
| GTLVR126011PV-R15L | 150 | 102.0 | 0.125 | 0.37 | 84.0 | 71.0 | 77.0 | 45.0 |
| GTLVR126011PV-R17L | 170 | 115.6 | 0.125 | 0.37 | 70.0 | 60.0 | 77.0 | 45.0 |
| GTLVR126011PV-R20L | 200 | 136.0 | 0.125 | 0.37 | 58.0 | 50.0 | 77.0 | 45.0 |

* **Test Condition :** (1)-(4)=(2)-(3) @100KHz , 0.1Vrms , 25deg.C Ambient

* **Li is the value of the inductance :** at 25°C at the listed rated current.

* **The nominal DCR(1)-(4) :** is measured from point "d" to point "a", as shown above on the mechanical drawing (Ta=25°C).

* **The nominal DCR(2)-(3) :** is measured from point "c" to point "b", as shown above on the mechanical drawing (Ta=25°C).

* The IDC as listed is either the Isat (25°C or 100°C) or the Irms depending on which value is lower.

* **Isat (1)-(4) & Isat (2)-(3) :** DC current that will cause inductance to drop approximately by 20%.

* **Irms :** Rated Current Loading when temperature rise approximately 40deg.C

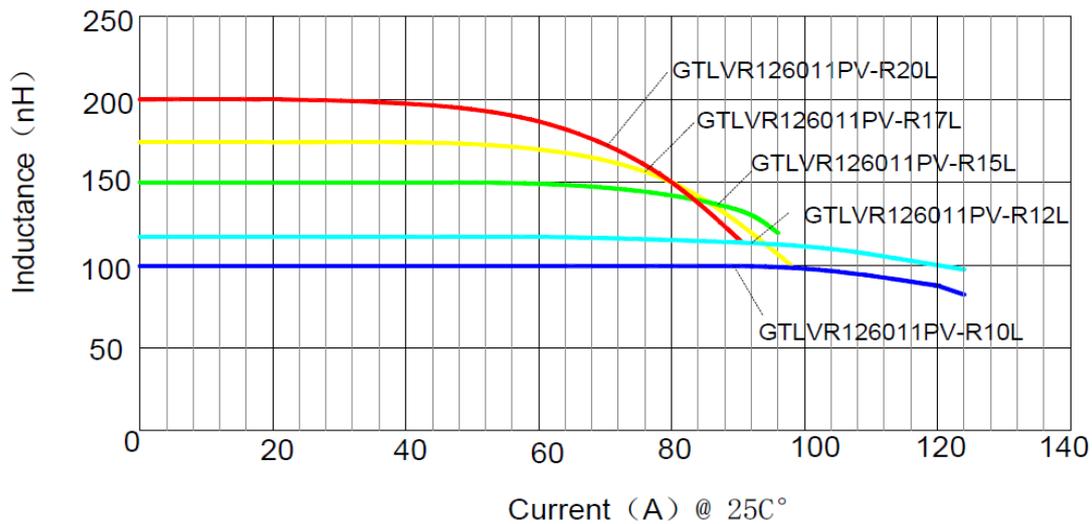
* **The part temperature (ambient + temp rise) :** Should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* **High pot:** 100Vdc, 1s, 3mA

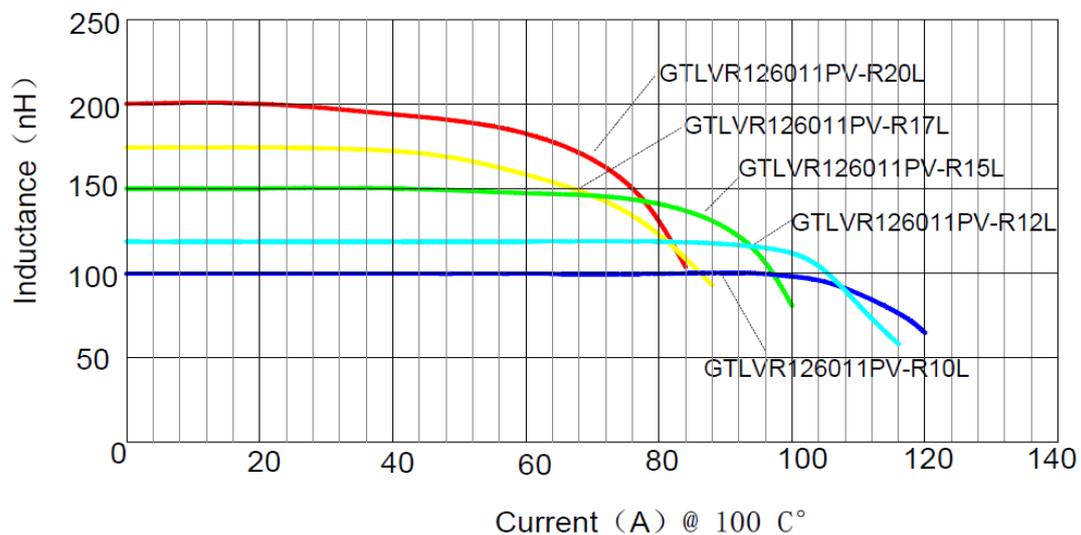
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Typical Performance Curves :

GTLVR126011PV-Series L vs I, Curve 25°C



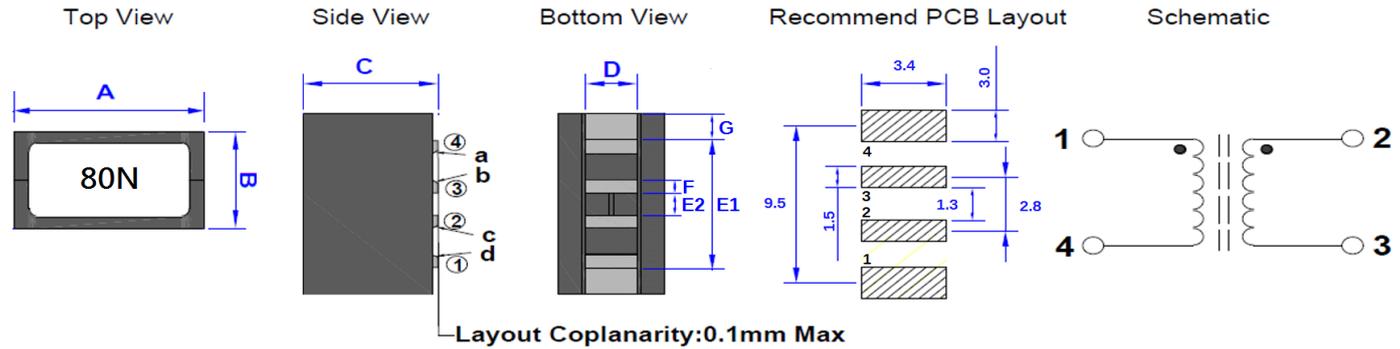
GTLVR126011PV-Series L vs I, Curve 100°C



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GTLVR126008PV-SERIES

Dimension [mm] :



| A (+/-0.3) | B (+/-0.3) | C (+/-0.3) | D (+/-0.2) | E1 (+/-0.3) | E2 (+/-0.3) | F (+/-0.3) | G (+/-0.3) |
|------------|------------|------------|------------|-------------|-------------|------------|------------|
| 11.70 | 5.70 | 7.70 | 2.80 | 7.20 | 1.80 | 1.00 | 2.40 |

Electrical Characteristics :

| Part No. | OCL (nH) | Li (nH) | DCR (1)-(4) (mOhm) | DCR (2)-(3) (mOhm) | Isat (A) Typ. | | | Irms (A) (1)-(4) | Irms (A) (2)-(3) |
|--------------------|----------|---------|--------------------|--------------------|---------------|-------|-------|------------------|------------------|
| | ±15% | Min. | +/-10% | +/-10% | 25°C | 75°C | 100°C | Typ. | Typ. |
| GTLVR126008PV-R08L | 80 | 57.6 | 0.100 | 0.30 | 105.0 | 100.0 | 95.0 | 78.0 | 45.0 |

- * **Test Condition :** (1)-(4)=(2)-(3) @100KHz , 1.0Vrms , 25deg.C Ambient
- * **Li is the value of the inductance :** at 25°C at the listed rated current.
- * **The nominal DCR(1)-(4) :** is measured from point "d" to point "a", as shown above on the mechanical drawing (Ta=25°C).
- * **The nominal DCR(2)-(3) :** is measured from point "c" to point "b", as shown above on the mechanical drawing (Ta=25°C).
- * **Isat (1)-(4) & Isat (2)-(3) :** DC current that will cause inductance to drop approximately by 20%.
- * **Irms :** Rated Current Loading when temperature rise approximately 40deg.C
- * **The part temperature (ambient + temp rise) :** Should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

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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) 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.

(4) Potting :

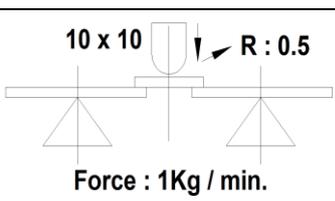
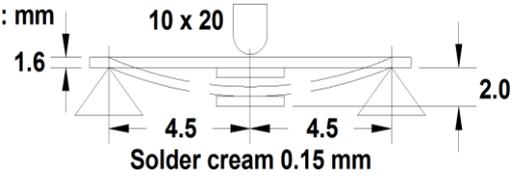
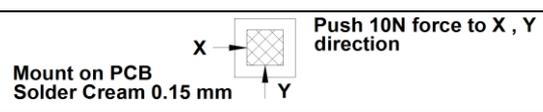
If this product is potted in some compound, coating material of magnet wire might be occasionally damaged. Please ask us if you intend to pot this product.

(5) 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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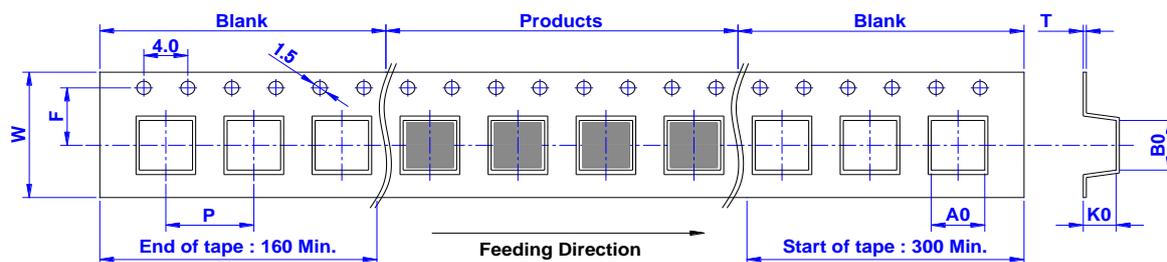
Reliability :

| SN | Test Item | Test Condition | Specification | | |
|----|--|--|---|--------|---|
| 1 | 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 | High Temperature | 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 | Load life | Temperature : 25 ± 3 deg.C Load : Allowed DC Current , Test Time : 96 ± 2 Hours | Elec. no variation Appearance no deformation | | |

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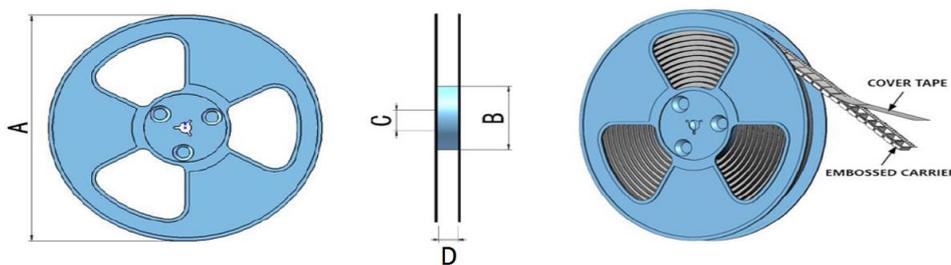
Packaging Information :

Tape Dimension Schematic Diagram (mm) :



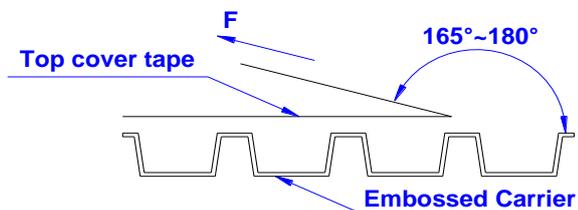
| SIZE/mm | W | P | A0 | B0 | K0 | T | F |
|---------|------|------|------|-------|-------|------|-------|
| 966411 | 24.0 | 12.0 | 9.80 | 6.60 | 10.70 | 0.50 | 11.50 |
| 126011 | 24.0 | 12.0 | 6.20 | 12.20 | 11.30 | 0.50 | 11.50 |
| 126008 | 24.0 | 12.0 | 6.20 | 12.20 | 8.00 | 0.50 | 11.50 |

Reel Dimension Schematic Diagram (mm) :



| SIZE/mm | Reel Size | A | B | C | D | QTY / Reel |
|---------|-------------|-----|-----|------|------|------------|
| 966411 | 13" × 24 mm | 330 | 100 | 20.4 | 24.5 | 500 PCS |
| 126011 | 13" × 24 mm | 330 | 100 | 20.4 | 24.5 | 400 PCS |
| 126008 | 13" × 24 mm | 330 | 100 | 20.4 | 24.5 | 500 PCS |

Tearing Off Force Schematic Diagram :



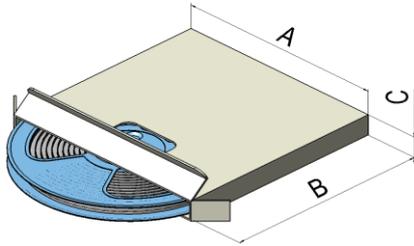
The force for tearing off cover tape is 10 to 130 grams in the arrow direction under the following conditions (referenced ANSI / EIA - 481 - D - 2008 of 4.11 standard).

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

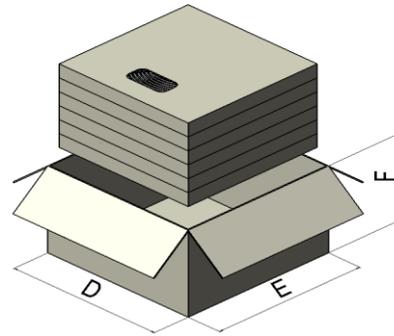
| | |
|---|---|
| Product Series : GTLVR | Brand : GOTREND |
| File Version : GTLVR-SERIES-V1R1 | Editor : Jerry Chen |
| Established Date : 2023.04.20 | Description : Coupled Inductors |
| Latest Edit Date : 2023.11.27 | Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

Packaging Information :

Box Package Schematic Diagram :



13" Small Box



13" Large Box

| SIZE/mm | Reels size | A | B | C | Large Box size | D | E | F | Reels in Small Box (QTY) | Small Box in Large Box(QTY) |
|---------|------------|-----|-----|----|----------------|-----|-----|-----|--------------------------|-----------------------------|
| 966411 | 13" | 335 | 335 | 23 | 13" | 350 | 350 | 220 | 1(500) | 5(2500) |
| 126011 | 13" | 335 | 335 | 23 | 13" | 350 | 350 | 220 | 1(400) | 5(2000) |
| 126008 | 13" | 335 | 335 | 23 | 13" | 350 | 350 | 220 | 1(500) | 5(2500) |