Product Series :	GFLD	Brand :	GOTREND
File Version :	GFLD-SERIES-V0R9	Editor :	Yinghui Guo
Established Date	2023.04.04	Description :	Gotrend FiLter DCM
Latest Edit Date :	2023.04.04	Product Type :	☐ Standard ☑ Customize

Version Information:

SN	Date	Version Code	Modify Description	Editior	Choke 後之代
01	2023.04.04	V0R9	New version release	Yinghui Guo	张文吖
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Product Series: GFLD Brand: **GOTREND** File Version: **GFLD-SERIES-V0R9** Editor: Yinghui Guo **Established Date** Gotrend FiLter DCM 2023.04.04 **Description:** Latest Edit Date: 2023.04.04 **Product Type:** ☐ Standard ☑ 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.
- Please read Attention and CAUTION note (for storage, operating, rating, soldering, mounting and handling) in this catalog to ensure
 product proper usage.
- ◆ GOTREND Technology is not responsible for issues that occur related to the intellectual property rights or other rights of our company or a third party when you use a product listed in this catalog. GOTREND Technology do not grant license of these rights.
- ♦ Information and data provided in the brochure can and do vary in different applications, and actual performance may vary over time.
- "Delivery Specification" illustrating precautions for the specifications and safety of each product listed in this catalog is available and we strongly recommend to provide these delivery specifications with customers that use these products.
- ◆ For exporting of product in this catalog, please take note it may be a restricted item according to the "Foreign Exchange and Foreign Trade Control Law". In such cases, it is necessary to acquire export permission in accordance to this law.
- 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:

- * SMD type pulse transformer.
- * GFLX series is small size and low profile.
- * 100% Lead (Pb) & Halogen-Free and RoHS compliant.
- * Operating temperature -40~ +105°C (Including self temperature rise)
- * For 10/100/1G Base-T



(Picture for reference only)

Basic Information:

Made in	Taiwan / China
Pin Foot	SMD
Shielding	Yes
J-STD-020	MSL Level 1
RoHS	Compliant
REACH	Compliant
Halogen	Free

Part No. Example:

PN	:	GFLD 321620 P -	600	Υ		
					Made in	Taiwan / China
ID	:	1 2 3	4	5	Pin Foot	SMD
					Shielding	Yes
1	:	GFLD : GOTRED Series Code			J-STD-020	MSL Level 1
2	:	321620 : Length 3.2 mm X Width	1.6 mm		RoHS	Compliant
3	:	P : Pb < 1000 ppm			REACH	Compliant
4		600 : Inductance 120 uH			Halogen	Free

Operating & Storage Condition:

* Operating Temp -40 ~ +125 $^{\circ}$ C (Including self - temperature rise) * Storage Temp 1. $-10 \sim +45$ °C , $50 \sim 60\%$ RH (Product with taping)

2. $-40 \sim +125 \,^{\circ}\mathbb{C}$ (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

Tolerance : Y = Min.

* 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 solderablility: 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:

Recommend IR Reflow Curve: GTX-IR-FILE001

HP4284A , HP42841A - L , Q , DCR , IDC $^{Temp}[^{\circ}C]$ * Equipment HP8753D Network analyzer - SRF

* Standard Atmosphere Conditions:

Ambient Temperature 20 ± 15 °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 °C Humidity RH 75 ± 10%

10 sec. Max. 255 217 Natural cooling 150 sec. Max. 150 60 sec. Min.

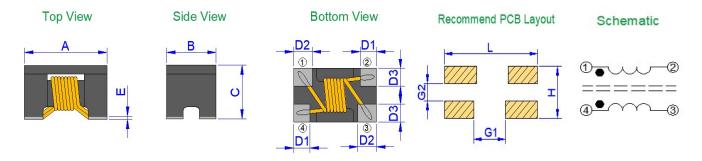
> Notice: Iron Soldering, Solder < 30 Watt, Direct touch the terminal x 3 Sec. Max. @ 350 C

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GFLD321620P-SERIES

Dimension [mm] :



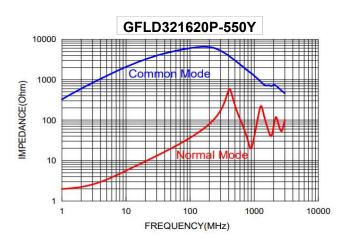
Size	A(+/-0.2)	B(+/-0.2)	C(+/-0.2)	D1(+/-0.1)	D2(+/-0.1)	D3(+/-0.1)	E(typ.)
	3.20	1.60	2.00	0.52	0.62	0.64	0.12
321620	G1(Rer.)	G2(Rer.)	L(Rer.)	H(Rer.)			
	2.30	0.50	3.70	1.7			

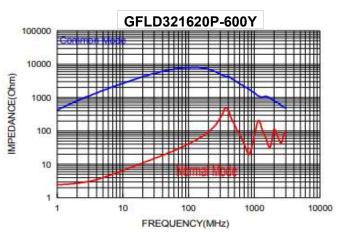
Electrical Characteristics:

Part No.	Inductance (uH) Min.	DC Resistance (Ω)Max.	Rated Current (mA)	Rated Volt. (Vdc)	Withstand Volt. (Vdc) max.	IR(Ω) min.
GFLD321620P-550Y	55.0	1.7	200.0	50.0	125.0	10M
GFLD321620P-600Y	60.0	1.7	200.0	50.0	125.0	10M

^{*} Test Frequency: 100KHz / 0.1V

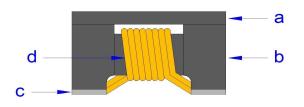
Typical Performance Curves::





Materials:

No.	Description	Specification
a.	Upper Plate	Ferrite
b.	Core	Ferrite Core
C.	Termination	Tin (Pb Free)
d.	Wire	Enameled Copper Wire



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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 ℃ The value of temperature including ambient and temperature rise of this product.
- c. Reliability test temperature range from -40 \sim +125 $^{\circ}\mathrm{C}$
- 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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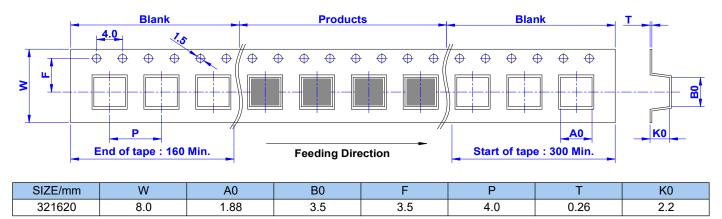
Reliability:

SN	Test Item		Test Condition		Specification
1	Dimension	Actual Size			Meet Spec
2	Thermal Shock (Temperature Cycle)	Temperature : -4	10 ~ +85 °C kept stabilized	Elec. no variation Appearance no deformation	
3	Humidity Resistance	Humidity: 90%	``	± 2 Hours	Elec. no variation Appearance no deformation
4	HighTemperature	Temperature: 8 Testing Time: 9			Elec. no variation Appearance no deformation
5	Low Temperature	Temperature : -4	10 ± 2 °C		Elec. no variation Appearance no deformation
6	Temperature and Humidity Cycle	Temperature -40±2°C 25±2°C 85±2°C Cycle: 500 Cycl	Humidity 50% ~ 65% RH 55% ~ 66% RH 50% ~ 65% RH	Time 30±5 Min. 0.5 Min. 30±5 Min.	Elec. no variation Appearance no deformation
7	Vibration	Frequency:10Hz	z ~ 2KHz ~ 10Hz for 20 mi ne:12 hours(20 minutes,1:		Elec. no variation Appearance no deformation
8	Solderability	The profile like of Preheat: 150 ± Peak: 255 ± 5 %		Elec. no variation Appearance no deformation	
9	Soldering Heat Resistance		10 °C (60 sec) % Ag 3% Cu 0.5% (Pb F 255 ± 5 °C, Time : 4 ± 1 s	Elec. no variation Appearance no deformation	
10	Iron Solder Heat Resistance	Solder Temp. : 3			Elec. no variation Appearance no deformation
11	Bending Strength	following dimens		Elec. no variation Appearance no deformation	
12	Flexure Strength	substra	Dress press	Appearance: No damage. Inductance: within±10% of initial value Cp: within ±15% of initial value and shall not Insertion Loss: within Specification	
13	Terminal Strength	J-STD-020DClas With the compor tested, apply a for device being tes seconds. Also the	Run through IR reflow for sification Reflow Profiles then the mounted on a PCB vorce(>0805:1kg, <=0805 ted. This force shall be applied gomponent being tested.	vith the device to be :0.5kg)to the side of a oplied for 60 +1	Elec. no variation Appearance no deformation

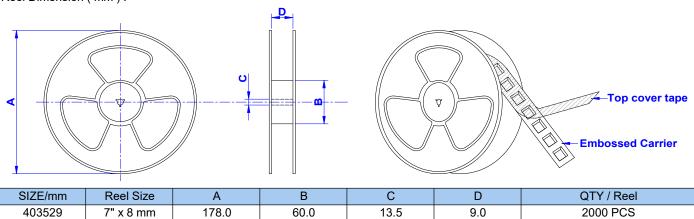
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Packaging Information:

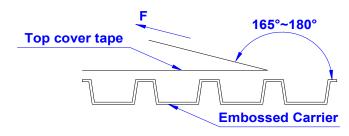
Tape Dimension (mm):



Reel Dimension (mm):



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).

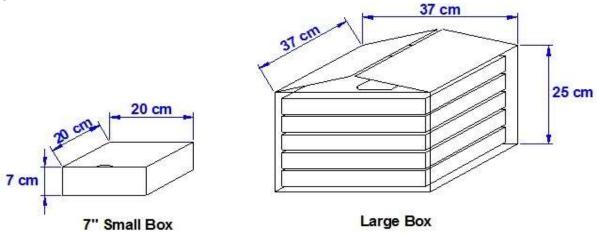
Room Temp. (°C)	Room Humidity (%)	Room Atm. (hPa)	Tearing Speed (mm / min)
5 ~ 35	45 ~ 85	860 ~ 1060	300

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Packaging Information:

Box Package:



SIZE/mm	Reels in Small Box	Small Box in Large Box
321620	5	8