Product Series :	GFLW	Brand :	GOTREND
File Version :	GFLW-SERIES-V0R9	Editor :	Yinghui Guo
Established Date :	2023.04.04	Description :	Wire Wound Type Common Mode Filter
Latest Edit Date :	2023 04 04	Product Type :	☑ Standard ☐ Customize

Version Information:

SN	Date	Version Code	Modify Description	Editior	Choke
01	2023.04.04	V0R9	New version release	Yinghui Guo	张文的
					V-2
 					
<u> </u>					

Product Series: Brand: **GOTREND** GFLW-SERIES-V0R9 File Version: Editor: Yinghui Guo **Established Date:** 2023.04.04 **Description:** Wire Wound Type Common Mode Filter **Latest Edit Date:** 2023.04.04 **Product Type:** ☐ Customize ☑ Standard

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.
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- ♦ Information and data provided in the brochure can and do vary in different applications, and actual performance may vary over time.
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- 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:

- * High common mode impedance at high frequency effects excellent noise suppression performance.
- * GFLW series is small size low profile.
- * 100% Lead (Pb) & Halogen-Free and RoHS compliant.
- * For 10/100/1G/2.5G Base-T



PN	:	GFLW	2012	Р	-	801	Υ	N
ID	:	1	2	3		4	5	6

1 : GFLW : GOTRED Series Code

2 : 2012 : Length 2.0 mm X Width 1.2 mm

3 : P:Pb < 1000 ppm

4 : 801 : Impedance 800 Ohm

5 : Tolerance : Y = Min.6 : N: Control S/N



(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

Operating & Storage Condition:

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

2. -40 \sim +125 $^{\circ}$ 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 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

* Equipment HP4284A , HP42841A - L , Q , DCR , IDC Temp [°C] HP8753D Network analyzer - SRF 255

* 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.

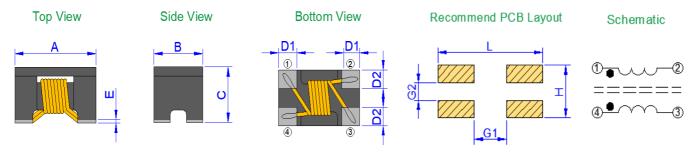
255
217
150
150 sec. Max.

Natural cooling
150 sec. Min.

GFLW GOTREND **Product Series:** Brand: File Version: GFLW-SERIES-V0R9 Editor: Yinghui Guo **Established Date:** 2023.04.04 **Description:** Wire Wound Type Common Mode Filter Latest Edit Date: 2023.04.04 **Product Type:** ☑ Standard ☐ Customize

GFLW2012P-SERIES

Dimension [mm] :



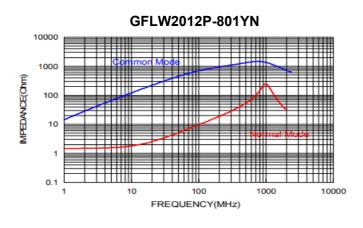
Size	A(+/-0.2)	B(+/-0.2)	C(+/-0.2)	D1(+/-0.1)	D2(+/-0.1)	E(+/-0.1)	G1(Ref.)
	2.00	1.20	1.20	0.5	0.51	0.15	1.25
2012	G2(Ref.)	L(Ref.)	H(Ref.)				
	0.45	2.60	1.40				

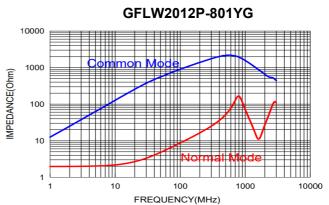
Electrical Characteristics:

F	Part No.	Common mode Impedance (Ω)	DC Resistance (Ω)Max.	Rated Current (mA) max.	Rated Volt. (Vdc) max.	Withstand Volt. (Vdc) max.	IR (Ω) min.
GFLW2	2012P-801YN	800.0 ±25%	0.88	300.0	50.0	125.0	10M
GFLW2	2012P-801YG	800.0 ±25%	0.88	300.0	50.0	125.0	10M

^{*} Test Frequency: 100MHz

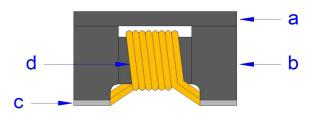
Diagram:





Materials:

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



^{*} Rated Current base on temp. rise up 40deg.C max.

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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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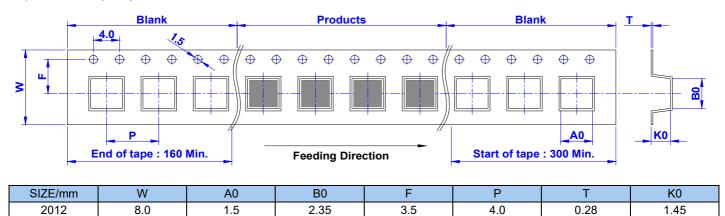
Reliability:

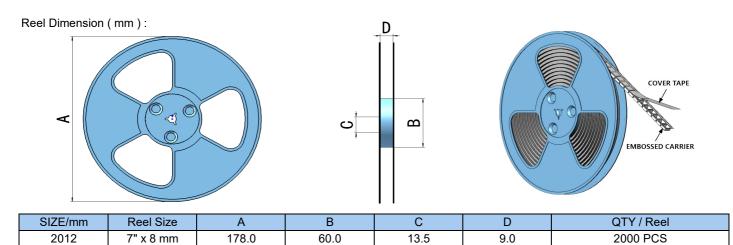
SN	Test Item		Test Condition		Specification
1	Dimension	Actual Size			Meet Spec
2	Thermal Shock (Temperature Cycle)	Cycle: 100 Cycle	• • • • • • • • • • • • • • • • • • • •	d for 30 min. each	Elec. no variation Appearance no deformation
3	Humidity Resistance	Humidity: 90% ~ Temperature: 60	95% RH) ± 2 °C, Test Time : 96 ±	· 2 Hours	Elec. no variation Appearance no deformation
4	HighTemperature	Temperature : 12 Testing Time : 96			Elec. no variation Appearance no deformation
5	Low Temperature	Temperature : -4 Time : 96 ± 2 Ho			Elec. no variation Appearance no deformation
6	Temperature and Humidity Cycle	Temperature -40±2°C 25±2°C 125±2°C Cycle: 500 Cycle	Humidity 50% ~ 65% RH 55% ~ 66% RH 50% ~ 65% RH	Elec. no variation Appearance no deformation	
7	Vibration		~ 2KHz ~ 10Hz for 20 min hours(20 minutes,12 cycl	ute,Total Amplitude : 10g les each of 3	Elec. no variation Appearance no deformation
8	Solderability			Elec. no variation Appearance no deformation	
9	Soldering Heat Resistance		0 °C (60 sec) % Ag 3% Cu 0.5% (Pb Fr 55 ± 5 °C, Time : 4 ± 1 se	Elec. no variation Appearance no deformation	
10	Iron Solder Heat	Solder Temp. : 3	50 ± 5 °C		Elec. no variation
	Resistance		ne : 3 ± 1 seconds d on a FR4 substrate of th	ne.	Appearance no deformation Elec. no variation
11	Bending Strength	following dimens <0805 inch(2012	ions: >=0805 inch(2012m mm):40x100x0.8mm :=0805 inch(2012mm):1.2 mm):0.8mm	Appearance no deformation	
12	Flexure Strength	DUT wide thicks			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 compon tested, apply a fo device being test seconds. Also the	Run through IR reflow for sification Reflow Profiles ent mounted on a PCB worce(>0805:1kg, <=0805:1ed. This force shall be applied groupponent being tested.	ith the device to be 0.5kg)to the side of a plied for 60 +1	Elec. no variation Appearance no deformation

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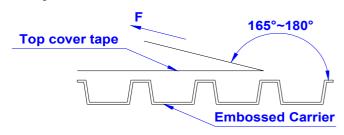
Packaging Information:

Tape Dimension (mm):





Tearing Off Force:



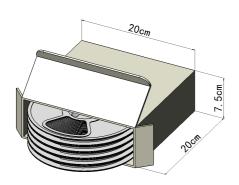
The force for tearing off cover tape is 10 to 130 grams in the arrow direction under the following conditions (referenced ANSI / EIA - 481 - D - 2008 of 4.11stadnard).

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

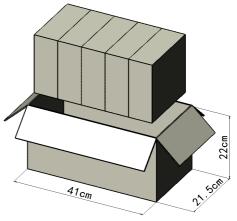
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Packaging Information:

Box Package:



7" Small Box



7" Large Box

SIZE/mm	Reels in Small Box	Small Box in Large Box
2012	5	8

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