

	Product Series Code:	GSDRH4	Brand:	GOTREND
	File Version:	GSDRH4-74P-6R8M	Editor:	Teddy
	Established Date:	2017/01/16	Description:	Dual Winding Shielding Inductor
	Latest Edit Date:	2017/01/16	Pages:	1 / 5

Version Information:

SN	Date	Version Code	Modify Description	Editor
1	2017/01/16	1R0	Original build	Teddy


Custom-Made Design Specification:

GOTREND PN	Inductance ( uH )	L-Tolerance	RDC ( mΩ / Max. )	Isat ( Amp / Max. )	Irms ( Amp / Max. )

★ Important Declaration 重要聲明:

Human Life Declaration: If any application in/on human life about device like Aircraft / Medical Equipment / Automobile ...etc, the approval must be passed by your unique and detail test or evaluation result. GOTREND Tech. only responsible for our items cost and possible rework charge !  
 客戶端生命相關之產品應用,如醫療,航太,車用...等直接人命相關之設備,必須根據客戶特別且仔細之測試驗證,確保研發及量產的產品最終品質,高創科技將僅對不良零件本身之價值及相關直接重工的費用負責!

謝謝您的採用,任何問題,請發電郵反映,或來電工程部洽詢!  
 Thanks for your patronage,if any question,PLS feel free Email contact or call for service !  
<http://www.gotrend.com.tw> E.mail: [service@gotrend.com.tw](mailto:service@gotrend.com.tw)

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**\* Features & Application:**

- \* Fit for power line & signal line circuit
- \* To help you go pass the CE/FCC standard.
- \* Good in EMI and fit for large current application
- \* MB / NB / IPC / LCD Monitor / STB / Hub / Switch...etc.

**\* Product Identify:**

Pin Foot	EMI	Color	Made In
<b>SMD</b>	<b>Shield</b>	<b>Black</b>	<b>China / Taiwan</b>

RoHS Compliant – SGS Test Report

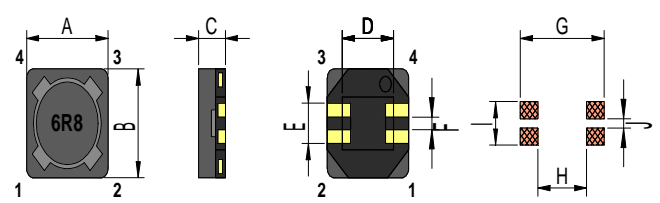
Pb	Cd	Hg	Cr+6	PBB	PBDE
<1000ppm	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>

**\* Part No. Example:**

PN	GSDRH4	-	74	P	-	6R8	M
ID	1	2	3	4	5		

- 1 GOTREND Series Code
- 2 Dimension Code: 74 = (L) 7.4 x (W) 7.4 x (H) 4.5 mm
- 3 RoHS Compliant
- 4 Inductance : 6R8 = 6.8 uH
- 5 Tolerance : M = 20%

**\* Dimensions: [mm]** *Base replaceable without notice!*



Size Code	A (Max)	B (Max)	C (Max)	D (Ref.)	E (+/-0.3)	F (+/-0.5)
74	7.80	7.80	4.5	4.1	2.7	1.1
	G (Ref.)	H (Ref.)	I (Ref.)	J (Ref.)		
	7.2	3.9	2.9	0.9		

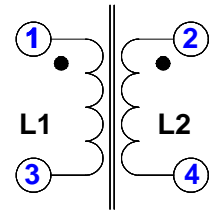
**\* Operating & Storage Condition:**

- 1.Storage Condition -40 ~ +85 ° C ( range is application specific )
- 2.Storage Life Time 6 Months @ 20 ° C / RH 65% (no seal off)
- 3.Operating Condition -40 ~ +85 ° C ( range is application specific )

**Attention & Caution:**

- \* Keep out of splashing water or salt water
- \* Toxic Gas (Hydrogen sulfide, Sulfurous acid, Chlorine, Ammonia)
- \* Vibrations or shocks which exceed the specified condition
- \* Dew condense
- \* Please be careful for the stress to this product by board flexure or something after the mounting.

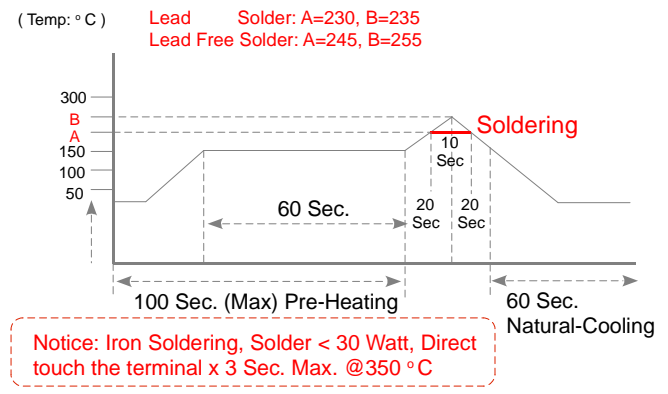
**\* Schematic:**



**\* Test Condition:**

- Equipment**
- 1.L – WK3260 LCR Meter
  - 2.RDC – Twintex TM8089A
  - 3.IDC – WK3260+3265B DC-Bias
  - 4.Dimension - Mitutoyo
  - 5.Temperature – TECPEL 305A
- Ambient**
- Temperature 20 ± 5 ° 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%


**\* Recommend IR Reflow Curve: GTX-IR-FILE001**



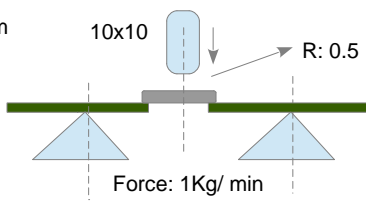
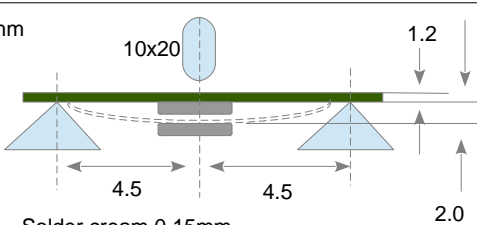
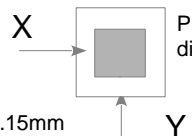
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GOTREND PN	Inductance (uH)	L-Tolerance	RDC (mΩ / Max. )	Isat (Amp / Max. )	Irms (Amp / Max. )
GSDRH4-74P-6R8M	6.8	M	70	3.9	2.1

- Inductance Test Parameters : @ 1KHz / 0.3V
- L Tolerance : M =+/-20%
- The Isat is the current at which the inductance decreases by 30% from the initial value.
- The Irms by Stand-Type is the current at which the temperature rise is  $\Delta T \leq 40^{\circ}\text{C}$  ,whichever (  $T_a = 20^{\circ}\text{C}$  ).

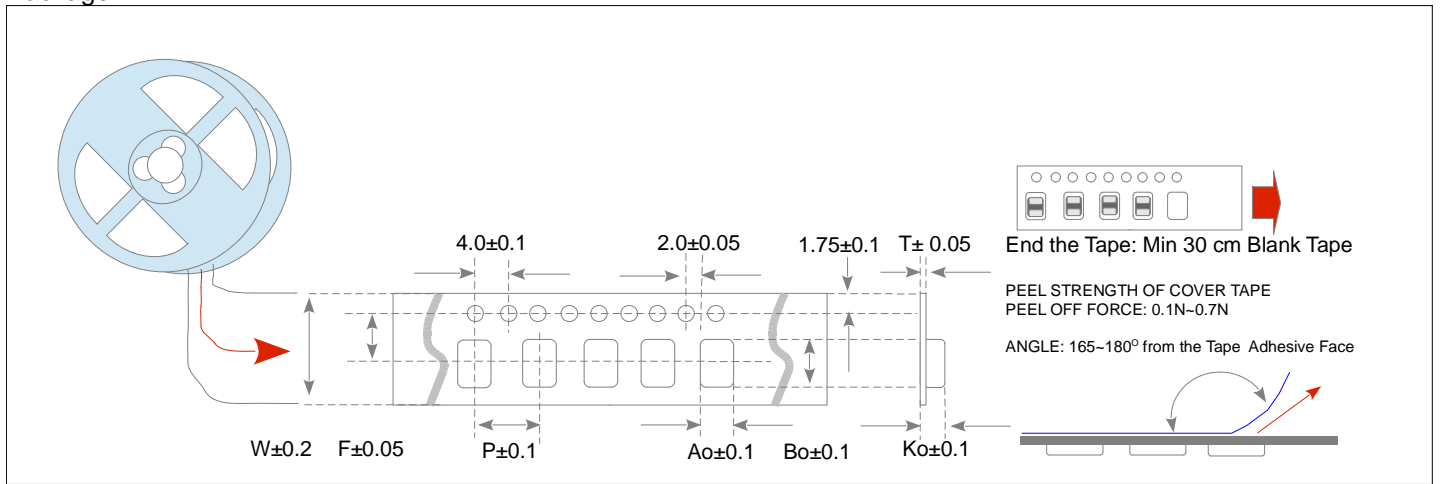
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### Reliability:

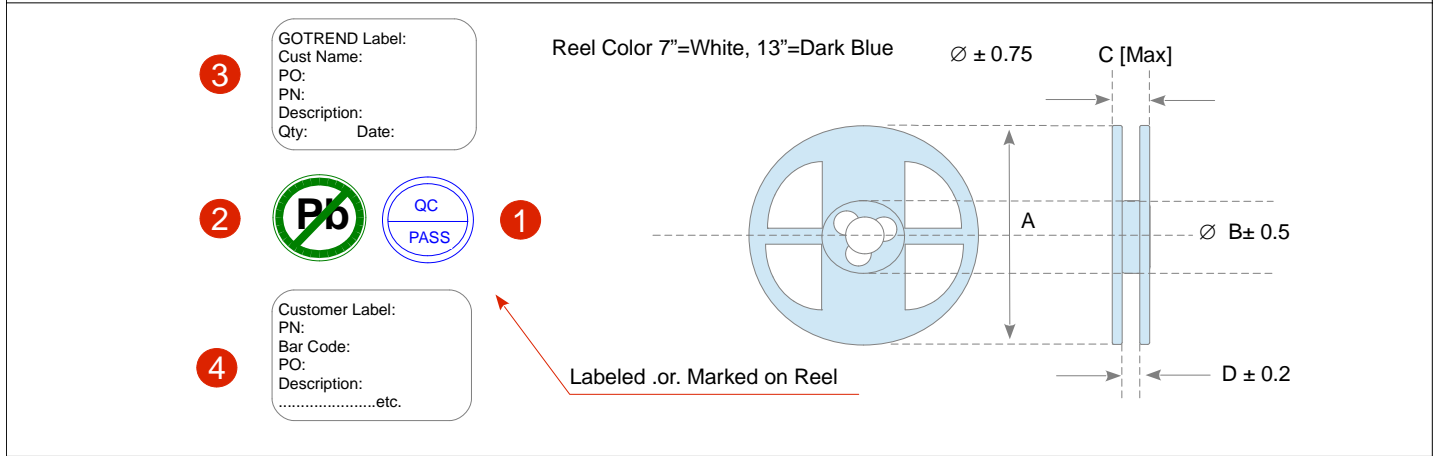
SN	Test Item	Test Condition	Specification	Result
1	Dimension 本體相關尺寸	Actual Size ...	Meet Spec	Pass
2	Thermal Shock (Temperature Cycle) 溫度循環試驗	Temperature:-40 °C / +85 ° C kept stabilized for 30 minutes each Cycle: 20 Cycles (power off)	Elec. no variation Appearance no deformation	Pass
3	Humidity Resistance 耐濕試驗	Humidity: 90%~ 95% RH Temperature: 40±2 ° C Test Time: 120±2 Hours	Elec. no variation Appearance no deformation	Pass
4	High Temperature 耐熱試驗	Temperature: 85±2 ° C Humidity: 20% Testing Time: 120±2 Hours	Elec. no variation Appearance no deformation	Pass
5	Low Temperature 耐寒試驗	Temperature: -40 ± 2 ° C Time: 120±2 Hours	Elec. no variation Appearance	Pass
6	Temperature and Humidity Cycle 溫/濕度循環試驗	Temperature: 85±2 ° C Humidity RH 90~95% Time: 24Hr x 8 Days	Elec. no variation Appearance no deformation	Pass
7	Vibration 振動性試驗	Frequency: 10Hz~55Hz Amplitude: 1.5mm Direction: X,Y,Z Time: 2 Hours each	Elec. no variation Appearance no deformation	Pass
8	Solderability 吃錫性試驗	Dip pads in Flux and test by Solder Pot (96.5 Sn/3.5Ag Solder) @ Temperature 255 ± 5 ° C / 5 ± 1 Sec Soldering Area must be cover > 90%	Elec. no variation Appearance no deformation	Pass
9	IR Reflow Soldering 迴焊爐焊性試驗	Go through real SMT IR-Reflow.... Temperature Tolerance : (± 5 ° C): IR temperature curve according to GTX-IR-FILE001 Cycles: x 2	Elec. no variation Appearance no deformation	Pass
10	Iron Solder Heat Resistance 手焊槍耐熱試驗	Solder Temp.: 350 ± 5 ° C Flux: Rosin Dip time: 5±1 seconds	Elec. no variation Appearance no deformation	Pass
11	Bending Strength 折斷力試驗	Unit: mm 	Elec. no variation Appearance no deformation	Pass
12	Flexure Strength 彎曲試驗	Unit: mm 	Elec. no variation Appearance no deformation	Pass
13	Terminal Strength 推/拉力試驗	 Mount on PCB Solder Cream 0.15mm Push 10N force to X,Y direction	Must no crack and damage	Pass
14	High-Voltage 高壓電擊試驗	100 V DC between core & winding	Elec. no variation Appearance no deformation	Pass
15	ORT:on going reliability test 負載電氣試驗	Base on Spec for approval	Elec. no variation Appearance no deformation	Pass

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Package :



Size / mm	W	P	Ao	Bo	Ko	T	F
GSDRH4-74	16	12	7.7	7.7	4.75	0.35	7.5



Size / mm	A	B	C	D	Reel Size	Qty / Reel
GSDRH4-74	330	105	21	17	13"	1000

