	Product Series Code:	GSDRK4	Brand:	GOTREND
	File Version:	GSDRK4-129P-102M-V1R1	Editor:	Teddy
	Established Date:	2017.08.09	Description:	Dual Winding,Shielded Inductor / Transformer
	Latest Edit Date:	2017.09.26	Pages:	2 / 5

*** Features & Application:**

- 1.As a transformer : SPEIC , flyback
- 2.As an inductor : buck , boost , coupled inductor
- 3.DC-DC converters
- 4.VRM inductor for CPU and DDR power supplies
- 5.Input and output filter chokes

*** Product Identify:**

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

RoHS Compliant – SGS Test Report

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

*** Part No. Example:**

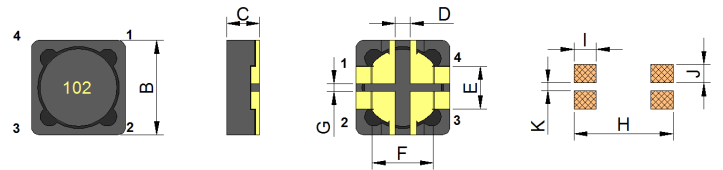
PN	GSDRH4	129	P	-	102	M
ID	1	2	3	4	5	

- 1 GOTREND Series Code
- 2 Dimension Code : 129 = (L) 12.5 x (W) 12.5 x (H) 10.0 mm
- 3 RoHS Compliant
- 4 Inductance : 102 = 1.0 mH
- 5 Tolerance : M = 20%

*** Dimensions: [mm]**

Base replaceable without notice!

Front View	Side View	Bottom View	Recommend Pad Layout
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Size Code	A (Max)	B (Max)	C (Max)	D (Ref.)	E (+/-0.2)	F (+/-0.2)
129	12.50	12.50	10.00	2.00	4.90	7.60
		G (Ref.)	H (Ref.)	I (Ref.)	J (Ref.)	
		1.00	13.80	3.85	2.50	

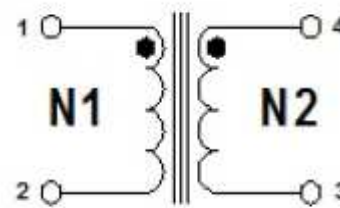
*** Operating & Storage Condition:**

- 1.Storage Condition -40 ~ +125 ° C (range is application specific)
- 2.Storage Life Time 6 Months @ 20 ° C / RH 65% (no seal off)
- 3.Operating Condition -40 ~ +125 ° 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:**

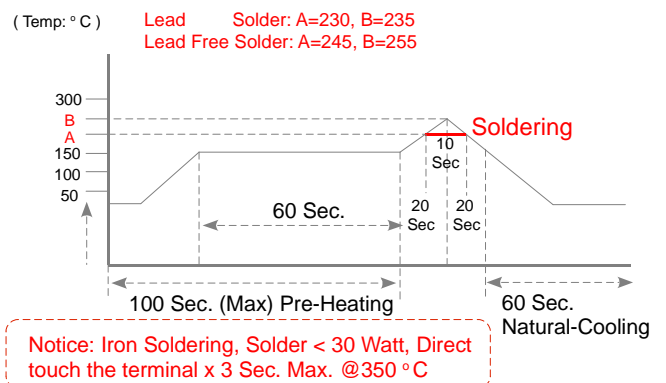
- Equipment**
- 1.L – WK3260 LCR Meter
 - 2.RDC – Twintex TM8089A
 - 3.IDC – WK3260+3265B DC-Bias
 - 4.Dimension - Mitutoyo
 - 5.Temperature – TECPEL 305A


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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* Electrical Characteristics :

GOTREND PN	Inductance L1 , L2 (mH)	DCR1 , DCR2 (Ohm)	Isat N1 , N2 (A)
GSDRH4-129P-102M	1.0 +/- 20%	2.5 Max.	0.30 Max.
GSDRH4-129P-202M	2.0 +/- 20%	4.5 Max.	0.18 Max.

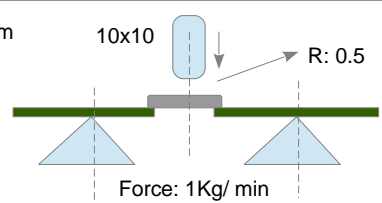
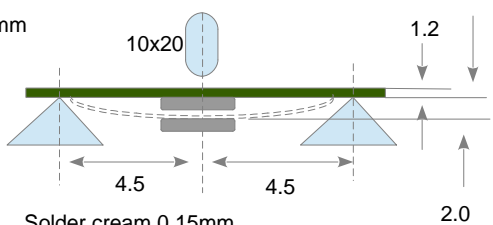
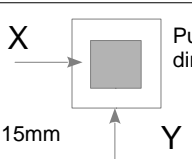
■ Open Circuit Inductance Test Parameters : @ 100KHz / 1.0V

■ Isat : Base on L drop 35% Max.

■ Turns Ratio (1 : 2) : (4 : 3) = 1 : 1

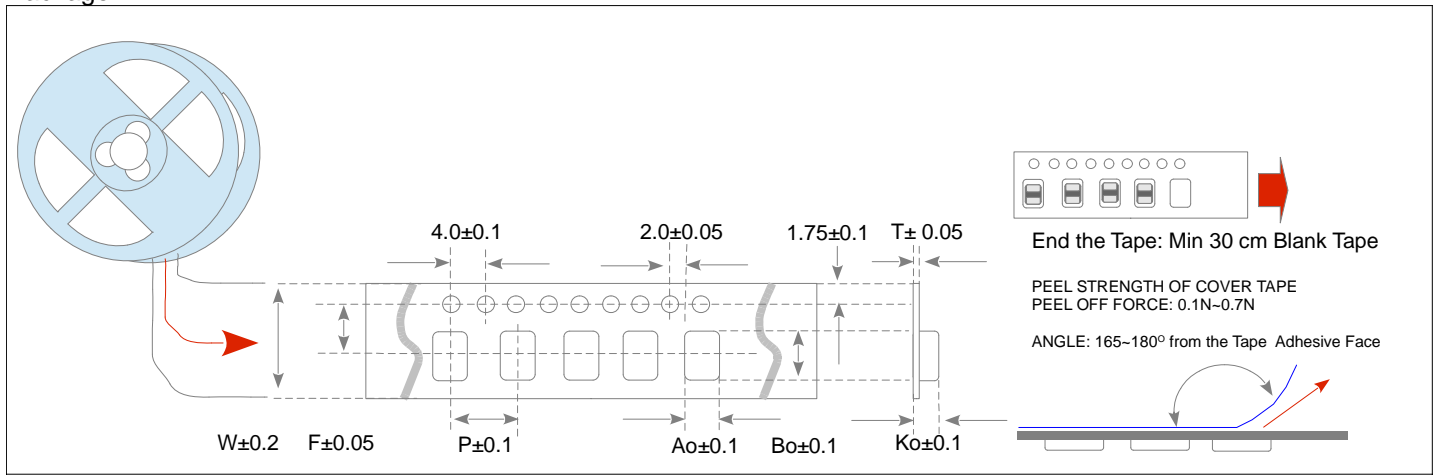
	Product Series Code:	GSDRK4	Brand:	GOTREND
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Reliability:

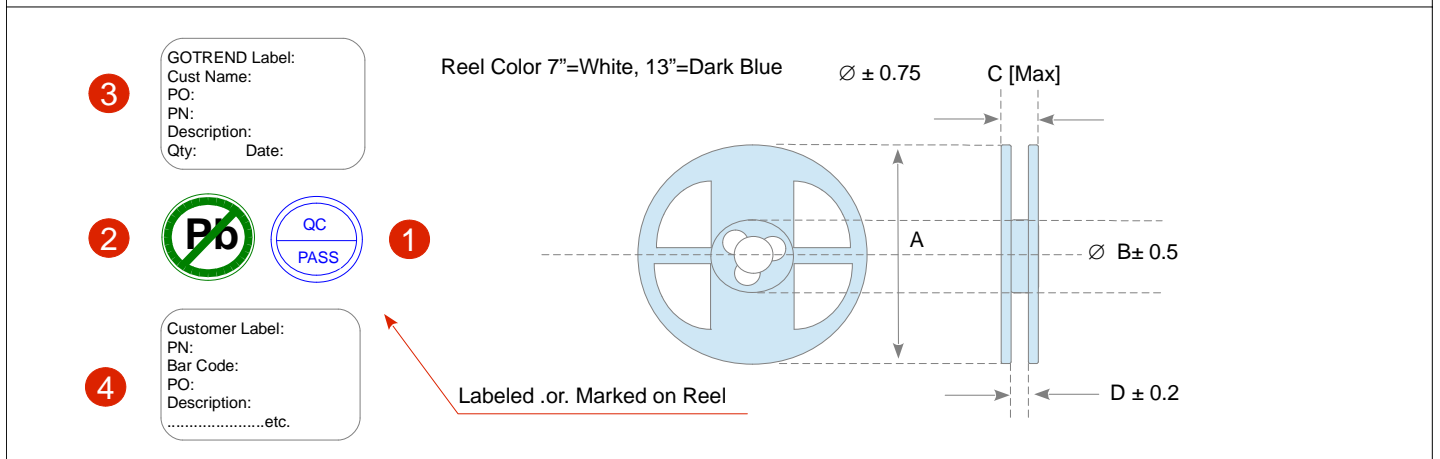
SN	Test Item	Test Condition	Specification	Result
1	Dimension 本體相關尺寸	Actual Size ...	Meet Spec	Pass
2	Thermal Shock (Temperature Cycle) 溫度循環試驗	Temperature:-40 °C / +125 ° C kept stabilized for 30 minutes each Cycle: 20 Cycles (power off)	Elec. no variation Appearance no deformation	Pass
3	Humidity Resistance 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: 125±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: 125±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
GSDRH4-129	24.00	16.00	13.00	13.00	11.0	0.25	11.50



Size / mm	A	B	C	D	Reel Size	Qty / Reel
GSDRH4-129	330	105	28.0	24.0	13"	400

