

Product Series Code:	GTX	Brand:	GOTREND
File Version:	GTX-SA314 SERIES-V1R2	Editor:	Teddy
Established Date:	2014.06.01	Description:	SMD Transformer
Latest Edit Date:	2016.09.13	Pages:	1 / 5

Version Information :

SN	Date	Version Code	Modify Description	Editor
1	2014.06.01	V1R0	Original build	Teddy
2	2016.04.18	V1R1	Modifying individual items RDC Specifications	Teddy
3	2016.09.13	V1R2	Based on the actual amount of yield and quality of the revised portion size and electrical specifications	Teddy

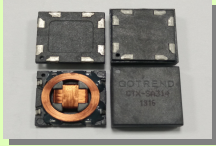
Custom-Made Design Specification :

GOTREND PN	Inductance (uH)	L-Tolerance	RDC (m Ohm) Typ.	RDC (m Ohm) Max.	Isat (mA) Typ.	Irms (mA) Typ.	Marking

★ 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

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*** Features & Application :**

1. High reliability conforms to automotive applications.
2. Encapsulated core and winding for anti-shock proof.
3. High Q and high sensitivity due to optimized magnetic material and electrode structure.
4. Wide inductance range for design flexibility.
5. Triaxial LF antenna coil.
6. Applicable to reflow soldering.
7. RoHS compliant.
8. Suitable as a Transponder Antenna Coil for TPMS and Keyless Entry System. (Vehicle application)

*** Product Identify :**

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

RoHS Compliant – SGS Test Report					
Pb	Cd	Hg	Cr+6	PBB	PBDE
<1000ppm	ND	ND	ND	ND	ND

*** Part No. Example :**

The same proportion type :

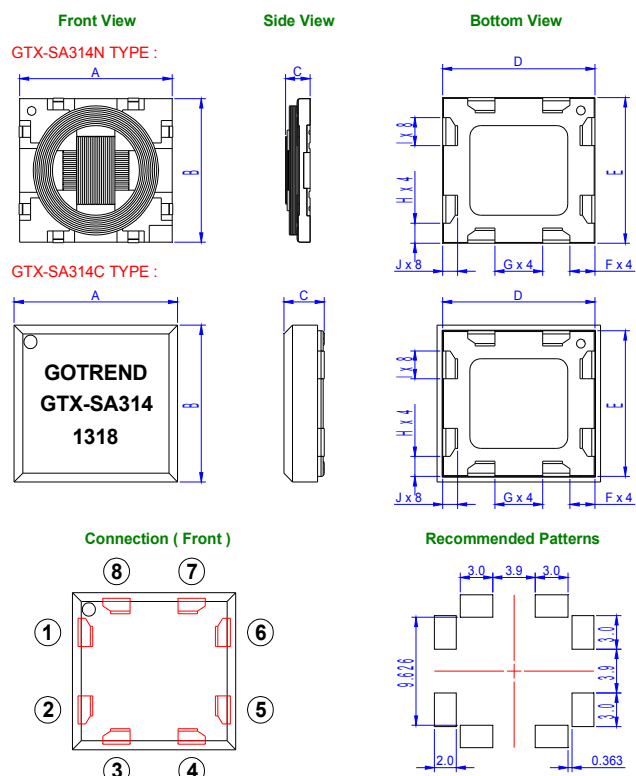
PN	GTX	-	SA314	□	-	472	J
ID	1	2	3	4	5		

Non-proportionally type :

PN	GTX	-	SA314	□	-	A
ID	1	2	3	6		

- 1 GOTREND Series Code
- 2 GOTREND Part Number
- 3 □ : Structure Code , N = Naked ; C = Combination
- 4 Inductance : 472 = 4.7 mH
- 5 Tolerance : J = 5% ; K = 10%
- 6 For customer special design : A ~ Z

*** Dimensions : [mm]**



*** Operating & Storage Condition :**

1. Storage Condition -40 ~ +125 °C / RH 65 ± 10%
2. Storage Life Time 6 Months @ 20 °C / RH 65% (no seal off)
3. Operating Condition -40 ~ +125 °C

Attention & Caution :

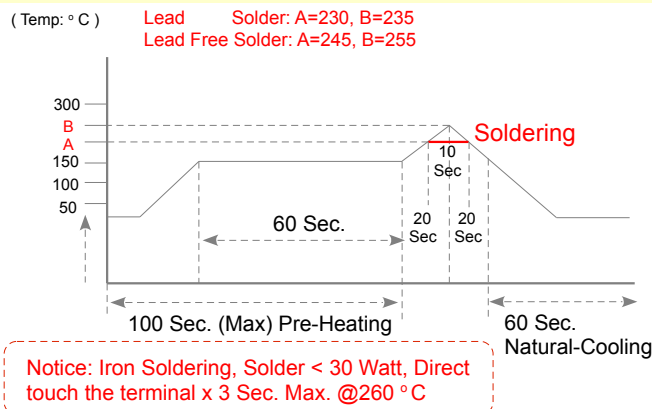
- * Keep out of splashing water or salt water
- * Toxic Gas (Hydrogen sulfide, Sulfurous acid, Chlorine, Ammonia)
- * Vibrations or shocks which exceed the specified condition
- * Dew condense
- * Please be careful for the stress to this product by board flexure or something after the mounting.

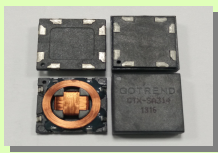
Marking :

- * GOTREND : Vendor Name
- * GTX-SA314 : Part Number
- * Date Code : xx xx (1) Year Ex : 2013 = 13
(1) (2) (2) Weekly Serial number : 01 ~ 52

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

Equipment	1. L – HIOKI 3532-50 LCR Meter 2. RDC – Twintex TM8089A 3. Q – HIOKI 3532-50 LCR Meter 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%





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* Electrical Characteristics :

GOTREND PN	No.	Pin No.	Inductance (mH)	Q Typ.	SRF (KHz) Typ.	RDC (Ohm) Max.
GTX-SA314□-A	1	(X) 3 ~ 4	4.70	35.0	380	99.0
	2	(Y) 5 ~ 6	4.70	36.0	380	105.0
	3	(Z) 7 ~ 8	7.20	42.0	750	190.0
GTX-SA314□-B	1	(X) 1 ~ 6	3.30	25.0	450	90.0
	2	(Y) 3 ~ 8	3.30	25.0	450	90.0
	3	(Z) 4 ~ 7	6.20	22.0	800	175.0
GTX-SA314□-242J	1	(X) 1 ~ 5	2.47	23.0	500	78.0
	2	(Y) 2 ~ 6	2.47	23.0	500	78.0
	3	(Z) 3 ~ 7	2.47	23.0	1000	104.0
GTX-SA314□-252J	1	(X) 1 ~ 5	2.58	23.0	500	80.0
	2	(Y) 2 ~ 6	2.58	23.0	500	80.0
	3	(Z) 3 ~ 7	2.58	23.0	800	110.0
GTX-SA314□-342J	1	(X) 1 ~ 5	3.42	27.0	450	90.0
	2	(Y) 2 ~ 6	3.42	27.0	450	90.0
	3	(Z) 3 ~ 7	3.42	27.0	800	125.0
GTX-SA314□-402J	1	(X) 1 ~ 5	4.05	27.0	400	100.0
	2	(Y) 2 ~ 6	4.05	27.0	400	100.0
	3	(Z) 3 ~ 7	4.05	27.0	800	135.0
GTX-SA314□-472J	1	(X) 1 ~ 5	4.77	28.0	380	108.0
	2	(Y) 2 ~ 6	4.77	28.0	380	108.0
	3	(Z) 3 ~ 7	4.77	28.0	800	148.0
GTX-SA314□-492J	1	(X) 1 ~ 5	4.91	27.0	350	109.0
	2	(Y) 2 ~ 6	4.91	27.0	350	109.0
	3	(Z) 3 ~ 7	4.91	27.0	750	150.0
GTX-SA314□-722J	1	(X) 1 ~ 5	7.20	30.0	330	133.0
	2	(Y) 2 ~ 6	7.20	30.0	330	133.0
	3	(Z) 3 ~ 7	7.20	30.0	750	190.0

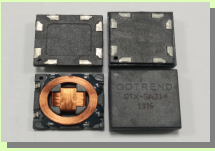
■ Inductance test Freq. : 125KHz / 1.0V

■ L-Tolerance : J = 5%

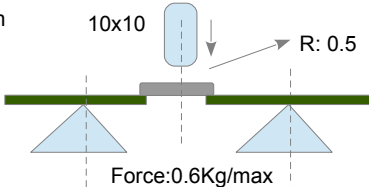
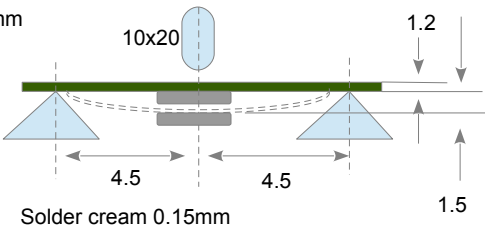
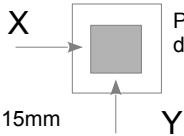
* Attention point of PCB process:

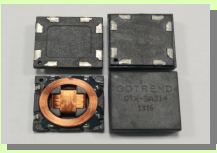
■ SMT process must follow our Reliability test condition , especial in item 11 & 12 (Bending Strength & Flexure Strength test)

■ Suggestion of Solder cream is around 0.12 ~ 0.15 mm

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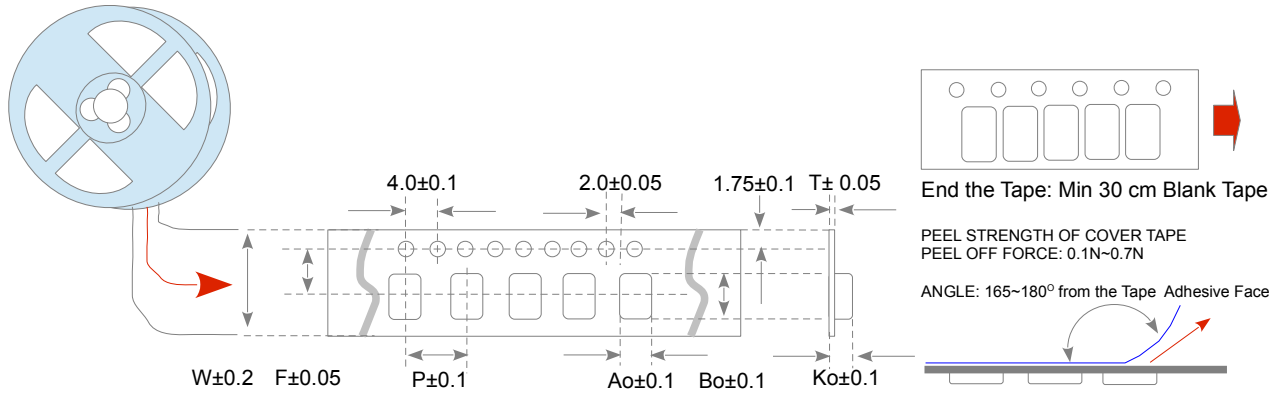
Reliability :

SN	Test Item	Test Condition	Specification	Sample Qty/pcs	Result
1	Dimension 本體尺寸	Actual Size ...	Meet Spec	10	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	10	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	10	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	10	Pass
5	Low Temperature 耐寒試驗	Temperature : -40 ± 2 °C Time : 120 ± 2 Hours	Elec. no variation Appearance	10	Pass
6	Temperature and Humidity Cycle 溫濕度循環試驗	Temperature : 85 ± 2 °C Humidity : 90 ~ 95% RH Time : 24 Hours x 8 Days	Elec. no variation Appearance no deformation	10	Pass
7	Vibration 振動性試驗	Frequency : 10Hz ~ 55Hz Amplitude : 1.52 mm Direction : X , Y , Z Time : 2 Hours each	Elec. no variation Appearance no deformation	10	Pass
8	Solderability 吃錫性試驗	Dip pads in Flux and test by Solder Pot (96.5 Sn / 3.5 Ag Solder) @ Temperature 245 ± 5 °C / 3 ± 0.2 Sec Soldering Area must be cover > 90%	Elec. no variation Appearance no deformation	10	Pass
9	IR Reflow Soldering 迴焊爐回流試驗	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	10	Pass
10	Iron Solder Heat Resistance 手焊耐熱試驗	Solder Temp. : 260 ± 5 °C Flux : Rosin Dip time : 5 ± 1 seconds	Elec. no variation Appearance no deformation	10	Pass
11	Bending Strength 折斷力試驗	Unit: mm  Force:0.6Kg/max	Elec. no variation Appearance no deformation	10	Pass
12	Flexure Strength 彎曲試驗	Unit: mm  Solder cream 0.15mm	Elec. no variation Appearance no deformation	10	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	10	Pass
14	High-Voltage 高壓電氣試驗	100 V DC between core & winding	Elec. no variation Appearance no deformation	10	Pass
15	ORT:on going reliability test 負載電氣試驗	Base on Spec for approval	Elec. no variation Appearance no deformation	10	Pass

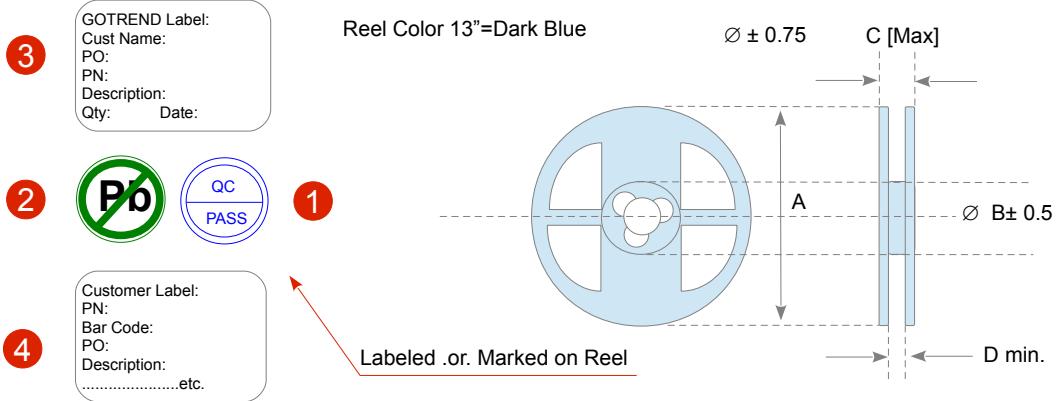


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Package :



W	P	Ao	Bo	Ko	T	F
24	20	15.4	14.4	4.2	0.35	11.5



A	B	C	D	Reel Size	Qty / Reel
330	100	30	24	13"	800

Unit : [cm]

