

SPECIFICATION FOR APPROVAL

Version Information :

SN	Date	Version Code	Modify Description	Editor
1	2014.12.12	V1R0	初版建立.	Teddy
2	2015.01.14	V1R1	變更 C / D / F / G 尺寸規格, 增加疊構圖.	Teddy
3	2015.01.28	V1R2	刪除料號代碼說明中實際尺寸描述.	Teddy
4	2015.02.05	V1R3	變更 A / B 尺寸公差, 變更 E 尺寸規格, 變更背膠結構外觀, 增加引出線保護結構.	Teddy

Important Declaration 重要聲明 :

Human Life Declaration: If any application in/on human life about device like Aircraft / Medical / Automobile Equipment ...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

SPECIFICATION FOR APPROVAL



Product Series Code	GW	Brand	GOTREND
File Version	GW281413PR-018A30YTS-V1R3	Editor	Teddy
Established Date	2014.11.19	Description	Wireless Charging Coil
Latest Edit Date	2015.02.05	Pages	Page : 3

Features & Application :

- * Wireless charging receiving coil
- * High permeability shielding for wireless charging receiving coils
- * Blocks charging flux from sensitive components or batteries
- * High saturation powered iron - not affected by permanent locating magnets
- * Durable construction
- * Compliant to RoHS Directive 2002 / 95 / CE

Part No Example:

GW 281413 P R - 018 A 30 Y TS
 1 2 3 4 5 6 7 8 9

1. Product Code : GW
2. Size Code : 281413
3. P = Pb Free < 1000ppm
4. R : [Rx]
5. Wire Size : 018 = 0.18 mm
6. Wire Count : A = Single , B = 2 Wire , C = 3 Wire etc.
7. Wire Turns (Ts) : 30 = 30.0 Ts
8. Wire Color : Y = Copper Yellow , R = Copper Red
9. [TS] : Material Code

Test Equipment :

* HP4284A , HP42841A - L , RDC

Standard Atmospheric Conditions :

Ambient Temp:20+/-15°C

Relative Humidity:65+/-20%

If there may be any doubt on the result,

measurement shall be made within the following limits:

Ambient Temp:25+/-5°C

Relative Humidity:75+/-10%

Operating & Storage Condition :

OPERATING TEMP : -25 ~ +85°C

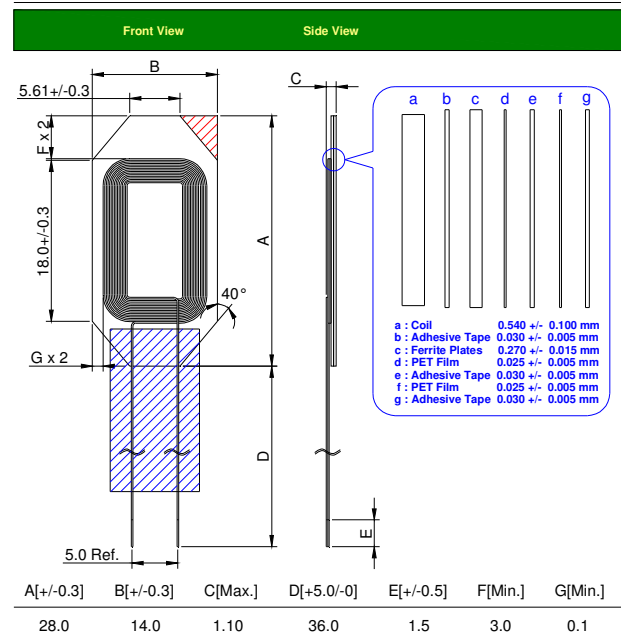
STORAGE TEMP : -40 ~ +85°C

STORAGE LIFE TIME : 12 MONTH @25°C , RH 40~65%

Product Structure

SMD	DIP	Shield	Unshield		
RoHS Compliant - SGS Certified Result					
Pb	Cd	Hg	Cr+6	PBB	PBDE
<1000ppm	ND	ND	ND	ND	ND
Halogen Free Compliant - SGS Certified Result					
Br		Cl		Br + Cl	
900 ppm wt max.		900 ppm wt max.		1500 ppm wt max.	

DIMENSION : [mm]



Attention & Caution :

Please avoid following matters:

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

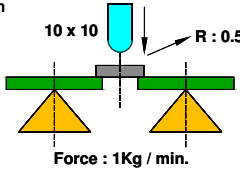
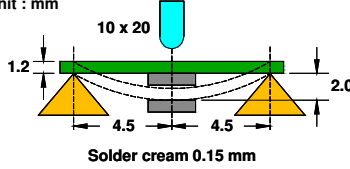
Electrical Characteristics :

GOTREND PN	Inductance (uH)	DCR (Ohm)
GW281413PR-018A30YTS	30.0 +/- 10%	1.0 +/- 20%

* Inductance Test Condition @100KHz , 0.1Vrms , 25°C Ambient



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NO	ITEM	TEST CONDITIONS	Sample Qty/pcs	Specification	Result																
1	Dimension 本體相關尺寸	Actual Size ...	10	Meet Spec	ok																
2	Thermal Shock (Temperature Cycle) 溫度循環試驗	Temperature : -40 °C~+85 °C kept stabilized for 30 minutes each Cycle : 100 Cycle (Power off)	10	Elec. no variation Appearance no deformation	ok																
3	Humidity Resistance 耐濕試驗	Humidity: 90%~ 95% RH Temperature: 40± 2 °C Test Time: 96± 2 Hours	10	Elec. no variation Appearance no deformation	ok																
4	High Temperature 耐熱試驗	Temperature: 85± 2 °C Testing Time: 96± 2 Hours	10	Elec. no variation Appearance no deformation	ok																
5	Low Temperature 耐寒試驗	Temperature: -40 ± 2 °C Time: 96± 2 Hours	10	Elec. no variation Appearance	ok																
6	Temperature and Humidity Cycle 溫/濕度循環試驗	<table border="1"> <thead> <tr> <th>Step</th> <th>Temp</th> <th>Humidity</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>25± 2 °C</td> <td>90-95%RH</td> <td>3.0Hr</td> </tr> <tr> <td>2</td> <td>55± 2 °C</td> <td>95-96%RH</td> <td>5.0Hr</td> </tr> <tr> <td>3</td> <td>25± 2 °C</td> <td>90-95%RH</td> <td>3.0Hr</td> </tr> </tbody> </table> Cycle: 20 Cycles	Step	Temp	Humidity	Time	1	25± 2 °C	90-95%RH	3.0Hr	2	55± 2 °C	95-96%RH	5.0Hr	3	25± 2 °C	90-95%RH	3.0Hr	10	Elec. no variation Appearance no deformation	ok
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1	25± 2 °C	90-95%RH	3.0Hr																		
2	55± 2 °C	95-96%RH	5.0Hr																		
3	25± 2 °C	90-95%RH	3.0Hr																		
7	Vibration 振動性試驗	Frequency: 10Hz~50Hz Amplitude: 1.5mm Direction: X,Y,Z Time: 2 Hours each	10	Elec. no variation Appearance no deformation	ok																
8	Solderability 吃錫性試驗	Solder : Sn96.5 / Ag3.0 / Cu0.5 Pre-Heating : 150± 10 °C / 1min. to 2min. Solder Temperature: 245± 5 °C Immersion Time 4s ± 1s Electrode shall be at least 75%	10	Elec. no variation Appearance no deformation	ok																
9	Iron Solder Heat Resistance 手焊耐熱試驗	Solder Temp. 350 ± 5 °C Flux : Rosin Time : 3± 1 seconds	10	Elec. no variation Appearance no deformation	ok																
10	Bending Strength 折斷力試驗	Unit : mm  Force : 1Kg / min.	10	Elec. no variation Appearance no deformation	ok																
11	Flexure Strength 彎曲試驗	Unit : mm  Solder cream 0.15 mm	10	Elec. no variation Appearance no deformation	ok																
12	High-Voltage 高壓電擊試驗	100 V DC Between core & winding	10	Elec. no variation Appearance no deformation	ok																



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Package Information:

BOX Package: cm

Small Box:500 pcs
Large Box:3000 pcs

