

Product Series Code	GCMB	Brand	GOTREND
File Version	GCMB-V2R1	Editor	Robert
Established Date	2000.09.25	Description	Common Mode Bead Core
Latest Edit Date	2005.07.22	Pages	Page : 2

Features & Application:

- * Common Mode Bead Core for High Current Capacity
- * Fit for power line & signal line circuit
- * To help you go pass the CE/FCC standard.
- * PC / IPC / Handheld Device / LowProfile Device / LCD...

Part No Example:

GCMB - 562585 - P - CT5

----- 1 ----- 2 ----- 3 ----- 4 -----

1. GOTREND Series : GCMB
 2. Core Size Code : W5.6XH2.5.XL8.5
 3. P= Pb free < 1000ppm
 4. Material Code : CT5

Elec.Char:			
P/N	Impedance	RDC (max)	IDC
GCMB-562585-CT5	60 ohm(+/-20%)@100MHz	0.005 ohm	5Amp

Test Equipment :

- * HP4284A, HP42841A- L, IDC, Q, RDC
- * HP8753D NETWORK ANALYZER- SRF

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%

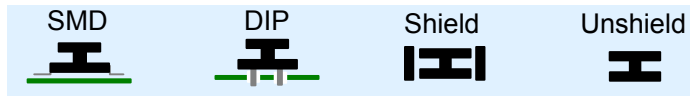
Operating & Storage Condition:

OPERATING TEMP: -40 ~ +85°C
 STORAGE TEMP: -40 ~ +85°C
 STORAGE LIFE TIME: 12 MONTH @ 25°C, RH 65%

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 condensates
 - * Please be careful for the stress to this product by board flexure or something after the mounting.

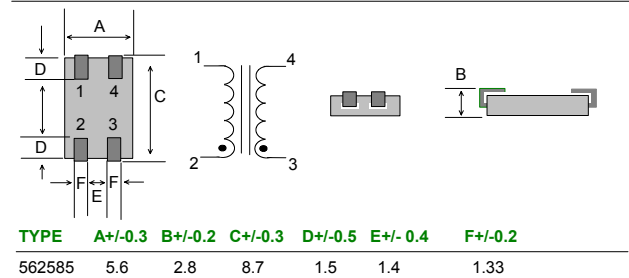
Product Structure



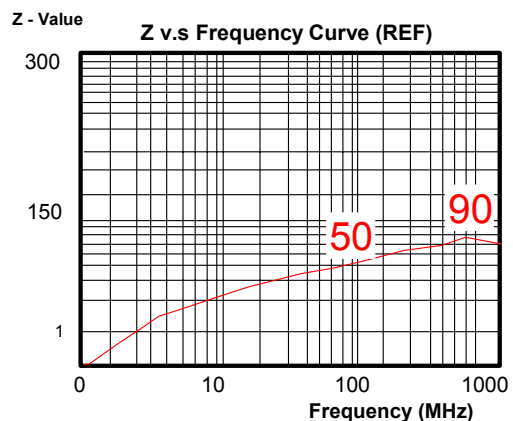
2005 RoHS Compliant - SGS Certified Result

鉛 Pb	鎘 Cd	汞 Hg	六價鉻 Cr+6	溴化聯苯 PBB	溴化聯苯 醚PBDE
<1000pp	ND	ND	ND	ND	ND

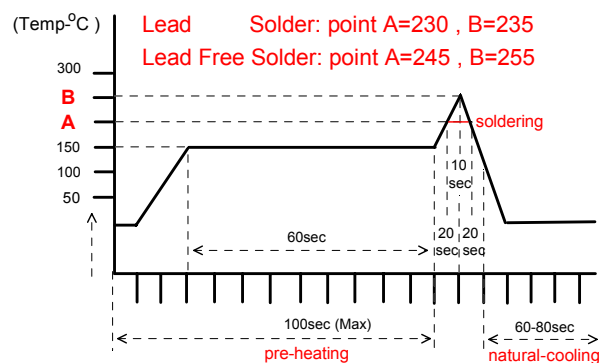
Dimension: m/m



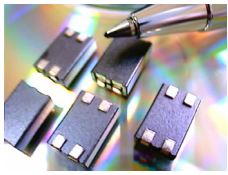
P/N: GCMB-562585-CT5



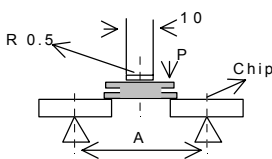
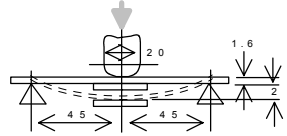
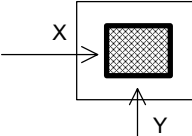
Recommand Reflow Curve (TIME: Second)

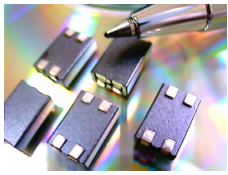


Notice: Iron Soldering: 3 Seconds Max. @ 260°C

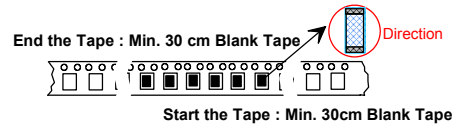
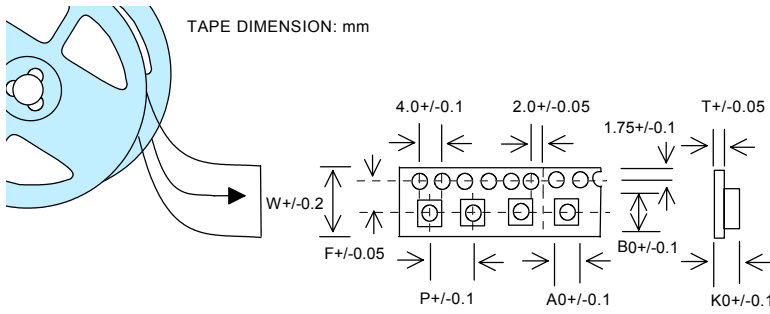


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NO	ITEM	TEST CONDITIONS	Sample Qty/pcs	Spec	Test Day Time	Modify Day	Result																
1	Dimension 本體相關呎吋	Actual Size ...	10	Meet Spec	90/07/12 ~90/07/12		ok																
2	Thermal Shock (Temperature Cycle) 溫度循環試驗	Temperature:-20 °C/ +85 °C kept stabilized for 30 minutes each Cycle: 100 Cycles(power off)	10	Elec. no variation Appearance no deformation	90/07/12 ~ 90/07/18		ok																
3	Humidity Resistance 耐濕試驗	Humidity: 90%~ 95% RH Temperature: 40± 2 °C Test Time: 120± 2 Hours	10	Elec. no variation Appearance no deformation	90/07/12 ~ 90/02/18		ok																
4	High Temperature 耐熱試驗	Temperature: 85± 2 °C Humidity: 20% Testing Time: 120± 2 Hours	10	Elec. no variation Appearance no deformation	90/07/12 ~ 90/07/18		ok																
5	Low Temperature 耐寒試驗	Temperature: -20 ± 2 °C Time: 120± 2 Hours	10	Elec. no variation Appearance	90/07/12 ~ 90/07/18		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>95~100%RH</td> <td>3.0Hr</td> </tr> <tr> <td>2</td> <td>55± 2 °C</td> <td>95~96%RH</td> <td>9.5Hr</td> </tr> <tr> <td>3</td> <td>25± 2 °C</td> <td>95~100%RH</td> <td>9.5Hr</td> </tr> </tbody> </table>	Step	Temp	Humidity	Time	1	25± 2 °C	95~100%RH	3.0Hr	2	55± 2 °C	95~96%RH	9.5Hr	3	25± 2 °C	95~100%RH	9.5Hr	10	Elec. no variation Appearance no deformation	90/07/12 ~ 90/07/19		ok
Step	Temp	Humidity	Time																				
1	25± 2 °C	95~100%RH	3.0Hr																				
2	55± 2 °C	95~96%RH	9.5Hr																				
3	25± 2 °C	95~100%RH	9.5Hr																				
7	Vibration 振動性試驗	Frequency: 10Hz~55Hz Amplitude: 1.5mm Direction: X,Y,Z Time: 2 Hours each	10	Elec. no variation Appearance no deformation	90/07/12 ~ 90/07/16		ok																
8	Dipping Verification 吃錫性試驗	Temp Control Solder @ Temp 230± 5 °C / 3 Sec 吃錫面積必須 > 75%	10	Elec. no variation Appearance no deformation	90/07/12 ~ 90/07/12		ok																
9	IR Reflow Soldering 焊錫性試驗	Go through real SMT IR-Reflow.... Solder Temp.: 230± 5 °C Time: 90 Sec. Cycles: x 1	10	Elec. no variation Appearance no deformation	90/07/12 ~ 90/07/12		ok																
10	Soldering Heat Resistance 耐熱 焊性試驗	Preheat:120 ~ 150 °C (6 sec) Solder:H63A(eutectic solder) Solder Temp.: 260 ± 5 °C Flux: Rosin Dip time: 10± 1 seconds	10	Elec. no variation Appearance no deformation	90/07/12 ~ 90/07/12		ok																
11	Bending Strength 折斷力試驗		10	Elec. no variation Appearance no deformation Endure 2kg.	90/07/12 ~ 90/07/12		ok																
11	Flexure Strength 彎曲試驗		10	Elec. no variation Appearance no deformation	90/07/12 ~ 90/07/12		ok																
12	Terminal Strength 推/ 拉力試驗		10	After solder between copper plate and terminals of coil, push in two directions of X,Y with 2.0kg must no crack	90/07/12 ~ 90/07/12		ok																
13	High-Voltage 高壓電擊試驗	100 V DC between core & winding	10	Elec. no variation Appearance no deformation	90/07/12 ~ 90/07/12		ok																
14	ORT:on going reliability test 負載電氣試驗	Elec loading & spec test... base on Spec for approval	10	Elec. no variation Appearance no deformation	90/07/12 ~ 90/07/12		ok																



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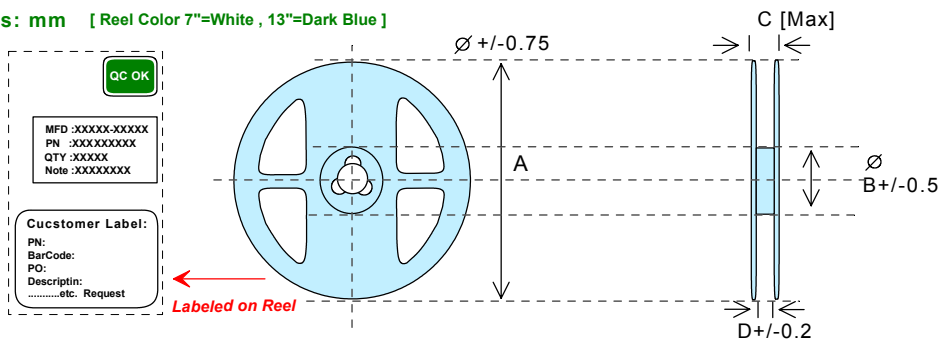
PEEL STRENGTH OF COVER TAPE
STRENGTH : 10-13 g

VELOCITY : 300mm/min.

ANGLE : 165-180° FROM THE TAPE ADHESIVE FACE

SIZE/mm	W	P	A ₀	B ₀	K ₀	T	F
562585	16.00	10.00	6.00	9.50	3.50	0.35	7.00

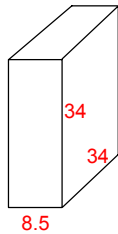
Reel Dimensions: mm [Reel Color 7"=White, 13"=Dark Blue]



SIZE / mm	A	B	C	D	REEL SIZE	QTY/REEL
562585	178	60	12	10	7"	0.5K

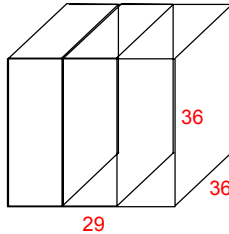
BOX Package: Unit: cm

4 Reel in



Inner Small Box

3 Inner Small Box in



Outer Large Box