

	Product Series Code	<b>GDO</b>	Brand	<b>GOTREND</b>
	File Version	GDO-V3R0	Editor	Teddy
	Established Date	2009.08.04	Description	Ferrite Core With Plastic Base Inductor
	Latest Edit Date	2013.02.23	Pages	Page : 2

### Features & Application:

- \* High-Current SMT Drum Choke for PWM circuit
- \* Fit for power line & signal line circuit
- \* To help you go pass the CE/FCC standard.
- \* Mobile Device / Handheld Device / LowProfile Device / Panel...

### Part No Example:

GDO 0802 P-680 M  
 1 2 3 4 5

1. GOTREND Series: GDO
2. Size Code : 0802
3. P=Pb free < 1000ppm
4. [ L ] Value : Inductance 680=68uH
5. Tolerance: M=+/-20%

### 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

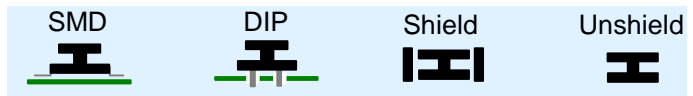
STORAGE LIFE TIME: 12 MONTH @25°C , RH 65%

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

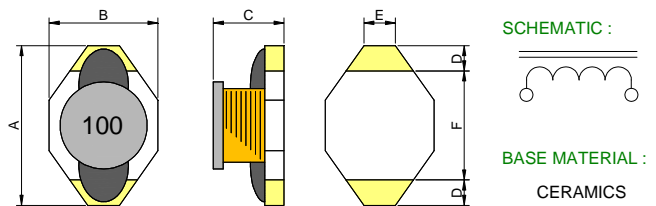
### Product Structure



### 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
<1000ppm	ND	ND	ND	ND	ND

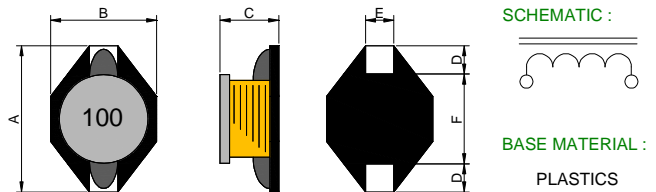
### DIMENSION : [ mm ]



SCHEMATIC :

BASE MATERIAL :  
CERAMICS

TYPE	A (max)	B (max)	C (max)	D +/-0.3	E +/-0.3	F
0402	6.60	4.45	2.92	1.00	1.02	4.40 +/-0.5

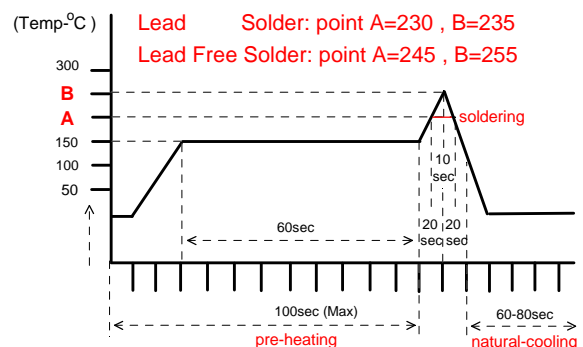


SCHEMATIC :

BASE MATERIAL :  
PLASTICS

TYPE	A (max)	B (max)	C (max)	D +/-0.3	E +/-0.3	F
0802	12.33	9.30	3.00	2.60 typ	1.20	7.20 +/-1.0
0804	12.95	9.40	5.21	2.50	2.50	7.20 +/-1.0
0810	12.95	9.40	11.43	2.50	2.50	7.20 +/-1.0
1306	18.54	15.24	7.11	2.50	2.50	12.70 +/-1.0

### Recommand Reflow Curve (TIME:Second)



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



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Part No.	L (uH) +/-20%	DCR (Ohm) Max.	SRF (MHz) Typ.	Isat (A) Typ.	Irms (A) Typ.
0402P-1R0M	1.00	0.05	130.0	2.90	2.90
0402P-1R5M	1.50	0.05	115.0	2.60	2.80
0402P-2R2M	2.20	0.07	90.0	2.30	2.40
0402P-2R7M	2.70	0.07	80.0	2.20	2.20
0402P-3R3M	3.30	0.08	70.0	2.00	2.00
0402P-4R7M	4.70	0.09	50.0	1.50	1.50
0402P-6R8M	6.80	0.13	45.0	1.20	1.40
0402P-100M	10.00	0.16	35.0	1.10	1.30
0402P-150M	15.00	0.23	30.0	0.90	1.20
0402P-220M	22.00	0.37	20.0	0.70	0.80
0402P-330M	33.00	0.51	15.0	0.58	0.60
0402P-470M	47.00	0.64	14.0	0.50	0.50
0402P-680M	68.00	0.86	11.0	0.40	0.40
0402P-101M	100.00	1.27	9.0	0.31	0.30
0402P-151M	150.00	2.00	6.0	0.27	0.25
0402P-221M	220.00	3.11	5.5	0.22	0.20
0402P-331M	330.00	3.80	5.0	0.18	0.16
0402P-471M	470.00	5.06	4.0	0.16	0.15
0402P-681M	680.00	9.20	3.0	0.14	0.12
0402P-102M	1000.0	13.80	2.0	0.10	0.07

Part No.	L (uH) +/-20%	DCR (Ohm) Max.	SRF (MHz) Typ.	Isat (A) Typ.	Irms (A) Typ.
0804P-1R0M	1.00	0.009	100.0	9.00	6.80
0804P-1R5M	1.50	0.010	90.0	8.00	6.40
0804P-2R2M	2.20	0.012	80.0	7.00	6.10
0804P-3R3M	3.30	0.015	65.0	6.40	5.40
0804P-4R7M	4.70	0.018	45.0	5.40	4.80
0804P-6R8M	6.80	0.027	38.0	4.60	4.40
0804P-100M	10.00	0.038	30.0	3.80	3.90
0804P-150M	15.00	0.046	27.0	3.00	3.10
0804P-220M	22.00	0.085	19.0	2.60	2.70
0804P-330M	33.00	0.100	15.0	2.00	2.10
0804P-470M	47.00	0.140	12.0	1.60	1.80
0804P-680M	68.00	0.200	10.0	1.40	1.50
0804P-101M	100.00	0.280	9.0	1.20	1.30
0804P-151M	150.00	0.400	6.0	1.00	1.00
0804P-221M	220.00	0.610	5.0	0.80	0.80
0804P-331M	330.00	1.020	4.5	0.60	0.60
0804P-471M	470.00	1.270	3.5	0.50	0.50
0804P-681M	680.00	2.020	2.5	0.40	0.40
0804P-102M	1000.0	3.000	2.0	0.30	0.30

Part No.	L (uH) +/-20%	DCR (Ohm) Max.	SRF (MHz) Typ.	Isat (A) Typ.	Irms (A) Typ.
0802P-100M	10.00	0.11	35.0	2.40	2.00
0802P-150M	15.00	0.15	33.0	2.00	1.50
0802P-220M	22.00	0.23	25.0	1.60	1.30
0802P-330M	33.00	0.30	19.0	1.40	1.10
0802P-470M	47.00	0.39	14.0	1.00	0.80
0802P-680M	68.00	0.66	12.0	0.90	0.70
0802P-101M	100.00	0.84	10.0	0.70	0.60
0802P-151M	150.00	1.20	8.0	0.60	0.50
0802P-221M	220.00	1.90	6.0	0.50	0.40
0802P-331M	330.00	2.70	5.0	0.40	0.30
0802P-471M	470.00	4.00	4.0	0.30	0.20
0802P-681M	680.00	5.30	3.0	0.20	0.10
0802P-102M	1000.00	8.40	2.5	0.10	0.05

Part No.	L (uH) +/-20%	DCR (Ohm) Max.	SRF (MHz) Typ.	Isat (A) Typ.	Irms (A) Typ.
0810P-1R0N	1.00	0.009	30.0	16.00	9.20
0810P-1R2N	1.20	0.009	/	15.00	9.00
0810P-1R5M	1.50	0.010	28.0	15.00	8.00
0810P-2R0M	2.00	0.012	27.0	14.00	7.00
0810P-2R2M	2.20	0.012	27.0	14.00	7.00
0810P-3R3M	3.30	0.013	26.0	12.00	6.00
0810P-4R7M	4.70	0.018	25.0	10.00	4.00
0810P-6R3M	6.30	0.038	25.0	10.00	3.80
0810P-6R8M	6.80	0.039	23.0	9.00	3.60
0810P-8R2M	8.20	0.040	22.5	8.00	3.60
0810P-100M	10.00	0.040	22.0	8.00	3.50
0810P-150M	15.00	0.050	18.0	7.00	3.00
0810P-220M	22.00	0.070	11.0	5.50	2.50
0810P-270M	27.00	0.075	10.0	5.00	2.30
0810P-330M	33.00	0.080	9.0	4.00	2.00
0810P-470M	47.00	0.110	8.0	3.80	1.60
0810P-680M	68.00	0.170	7.0	3.00	1.20
0810P-101M	100.00	0.220	5.0	2.50	1.20
0810P-151M	150.00	0.340	4.0	2.00	0.90
0810P-221M	220.00	0.440	3.5	1.60	0.70
0810P-331M	330.00	0.700	2.5	1.20	0.60
0810P-471M	470.00	0.950	2.0	1.00	0.30
0810P-681M	680.00	1.200	2.0	1.00	0.20
0810P-102M	1000.00	2.00	1.50	0.80	0.10

- \* GDO0810P-1R0 = L Tol. by N = 30%
- \* Test @100KHz, 1Vrms
- \* Isat = L value 10% drop
- \* Irms = Temperature 15° C Rise



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Part No.	L ( $\mu$ H) +/-20%	DCR ( Ohm ) Max.	SRF ( MHz ) Typ.	Isat ( A ) Typ.	Irms ( A ) Typ.
1306P-1R0M	1.00	0.009	80.0	20.00	8.60
1306P-2R2N	2.20	0.014	80.0	16.00	7.10
1306P-3R3N	3.30	0.018	60.0	14.00	6.20
1306P-5R6M	5.60	0.020	40.0	12.00	5.30
1306P-100M	10.00	0.031	30.0	10.00	4.30
1306P-150M	15.00	0.036	22.0	8.00	4.00
1306P-220M	22.00	0.047	20.0	7.00	3.50
1306P-330M	33.00	0.066	15.0	5.50	3.00
1306P-470M	47.00	0.086	9.0	4.50	2.60
1306P-680M	68.00	0.130	8.0	3.50	2.30
1306P-101M	100.00	0.190	7.0	3.00	1.80
1306P-151M	150.00	0.250	6.0	2.60	1.50
1306P-221M	220.00	0.380	5.0	2.40	1.20
1306P-331M	330.00	0.560	4.0	1.90	1.00
1306P-471M	470.00	0.850	3.0	1.40	0.82
1306P-681M	680.00	1.100	2.5	1.20	0.72
1306P-102M	1000.00	1.800	2.0	1.00	0.56
1306P-152M	1500.00	2.660	/	0.80	0.46
1306P-222M	2200.00	4.300	/	0.60	0.36
1306P-332M	3300.00	6.600	/	0.30	0.29
1306P-472M	4700.00	9.700	/	0.09	0.24
1306P-682M	6800.00	11.500	/	0.07	0.22
1306P-722M	7200.00	12.200	/	0.06	0.21

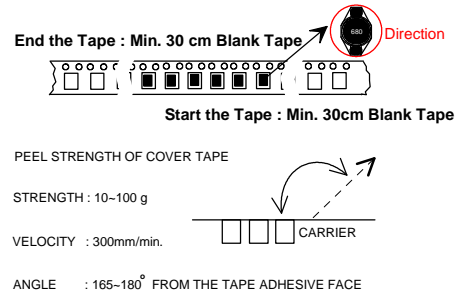
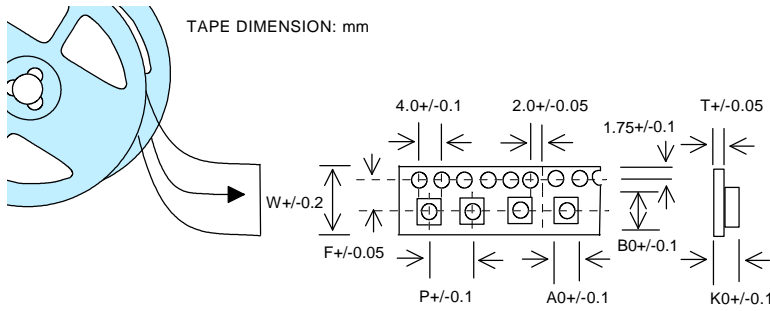
- \* Test @100KHz, 1Vrms
- \* Isat = L value 10% drop
- \* Irms = Temperature 15° C Rise



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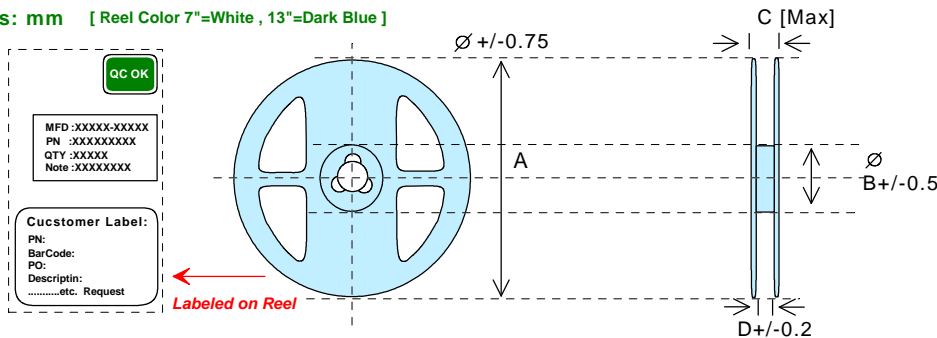
NO	ITEM	TEST CONDITIONS	Sample Qty/pcs	Spec	Result																
1	Dimension 本體相關呎吋	Actual Size ...	10	Meet Spec	ok																
2	Thermal Shock (Temperature Cycle) 溫度循環試驗	Temperature:-20 °C/ +85 °C kept stabilized for 30 minutes each Cycle: 100 Cycles(power off)	10	Elec. no variation Appearance no deformation	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	ok																
4	HighTemperature 耐熱試驗	Temperature: 85± 2 °C Humidity: 20% Testing Time: 120± 2 Hours	10	Elec. no variation Appearance no deformation	ok																
5	Low Temperature 耐寒試驗	Temperature: -20 ± 2 °C Time: 120± 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>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	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	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	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	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	ok																
11	Bending Strength 折斷力試驗		10	Elec. no variation Appearance no deformation >3KG	ok																
12	Flexure Strength 彎曲試驗		10	Elec. no variation Appearance no deformation	ok																
13	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	ok																
14	High-Voltage 高壓電擊試驗	100 V DC between core & winding	10	Elec. no variation Appearance no deformation	ok																
15	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	ok																

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SIZE/mm	W	P	A <sub>0</sub>	B <sub>0</sub>	K <sub>0</sub>	T	F
<b>0402</b>	16.00	8.00	4.80	7.20	3.30	0.35	11.50
<b>0802</b>	24.00	12.00	9.65	13.80	3.50	0.35	11.50
<b>0804</b>	24.00	12.00	9.65	13.80	6.50	0.35	11.50
<b>0810</b>	24.00	12.00	9.50	13.80	11.80	0.50(+/-0.01)	11.50
<b>1306</b>	32.00	20.00	15.80	19.20	8.50	0.35	11.50

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

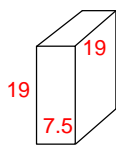


SIZE / mm	A	B	C	D	REEL SIZE	QTY/REEL
<b>0402</b>	178/330	50	22.4	18	7" / 13"	0.7K / 2.5K
<b>0802</b>	330	50	26.4	22	13"	1.0K
<b>0804</b>	330	50	26.4	22	13"	1.0K
<b>0810</b>	330	50	26.4	22	13"	0.35K
<b>1306</b>	330	50	30.4	26	13"	0.25K

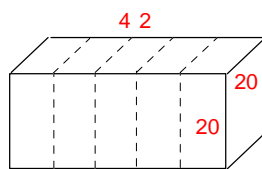
BOX Package ( Reel 7" ) : Unit: cm

0402 - 5 Reel in

5 Inner Small Box in



Inner Small Box



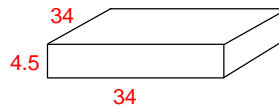
Inner Medium Box

BOX Package ( Reel 13" ) : Unit: cm

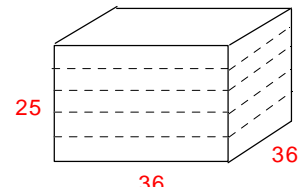
0402-2 Reel in

0802/0804/0810/1306-1 Reel in

5 Inner Small Box in



Inner Small Box



Outer Large Box

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