

	Product Series Code	GDO	Brand	GOTREND
	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

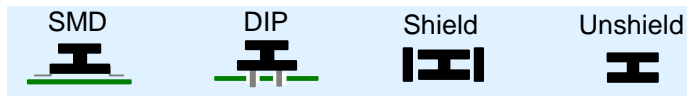
STORAGE LIFE TIME: 12 MONTH @25°C , RH 65%

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.

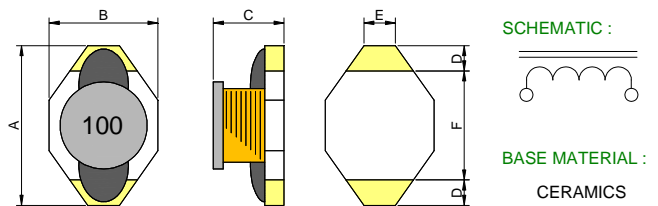
Product Structure



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]

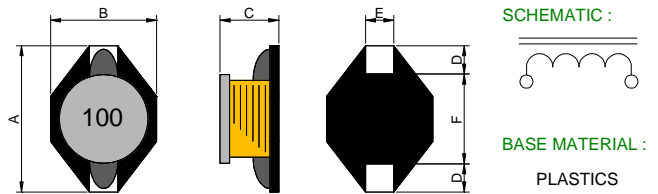


SCHEMATIC :

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



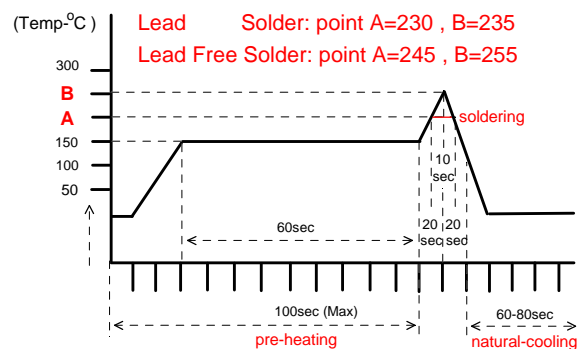
SCHEMATIC :

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 (μ 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

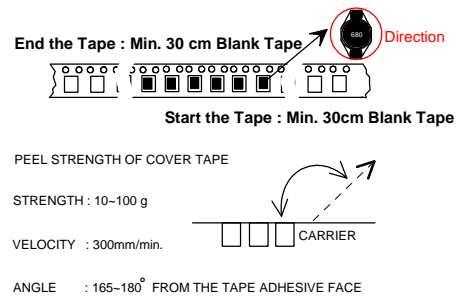
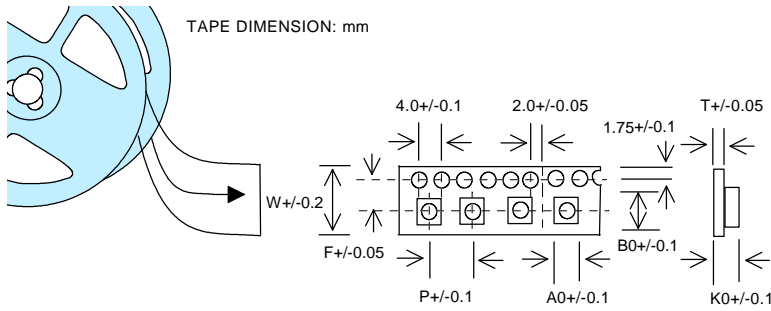
- * Test @100KHz, 1Vrms
- * Isat = L value 10% drop
- * Irms = Temperature 15° C Rise



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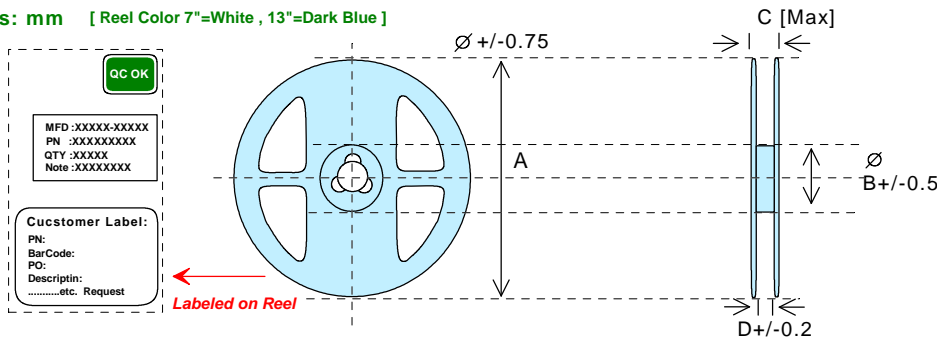
NO	ITEM	TEST CONDITIONS	Sample Qty/pcs	Spec	Result																
1	Dimension 本體相關呎吋	Actual Size ...	10	Meet Spec	ok																
2	Thermal Shock (Temperature Cycle) 溫度循環試驗	Temperature:-20 °C/ +85 °C kept stabilized for 30 minutes each Cycle: 100 Cycles(power off)	10	Elec. no variation Appearance 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 ₀	B ₀	K ₀	T	F
0402	16.00	8.00	4.80	7.20	3.30	0.35	11.50
0802	24.00	12.00	9.65	13.80	3.50	0.35	11.50
0804	24.00	12.00	9.65	13.80	6.50	0.35	11.50
0810	24.00	12.00	9.50	13.80	11.80	0.50(+/-0.01)	11.50
1306	32.00	20.00	15.80	19.20	8.50	0.35	11.50

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

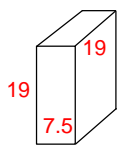


SIZE / mm	A	B	C	D	REEL SIZE	QTY/REEL
0402	178/330	50	22.4	18	7" / 13"	0.7K / 2.5K
0802	330	50	26.4	22	13"	1.0K
0804	330	50	26.4	22	13"	1.0K
0810	330	50	26.4	22	13"	0.35K
1306	330	50	30.4	26	13"	0.25K

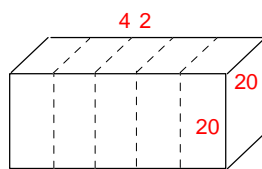
BOX Package (Reel 7") : Unit: cm

0402 - 5 Reel in

5 Inner Small Box in



Inner Small Box



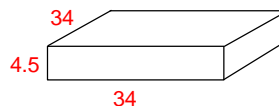
Inner Medium Box

BOX Package (Reel 13") : Unit: cm

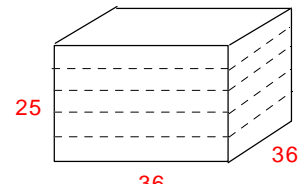
0402-2 Reel in

0802/0804/0810/1306-1 Reel in

5 Inner Small Box in



Inner Small Box



Outer Large Box