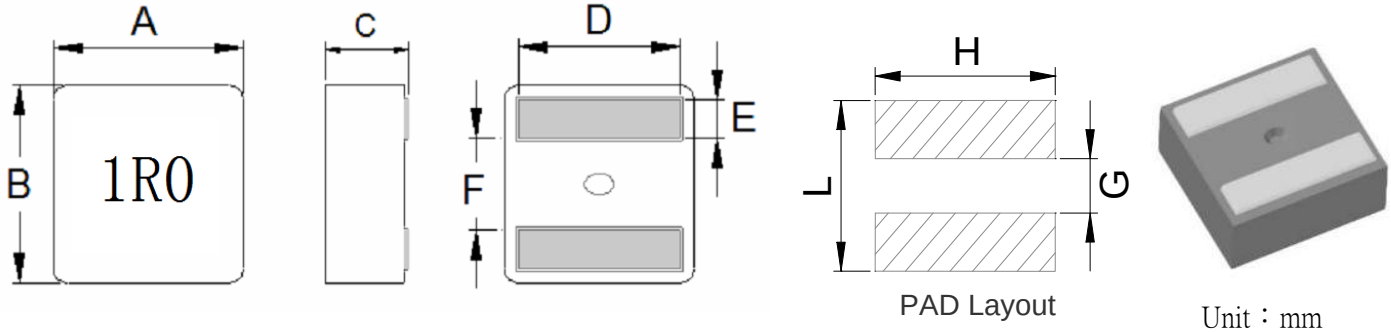
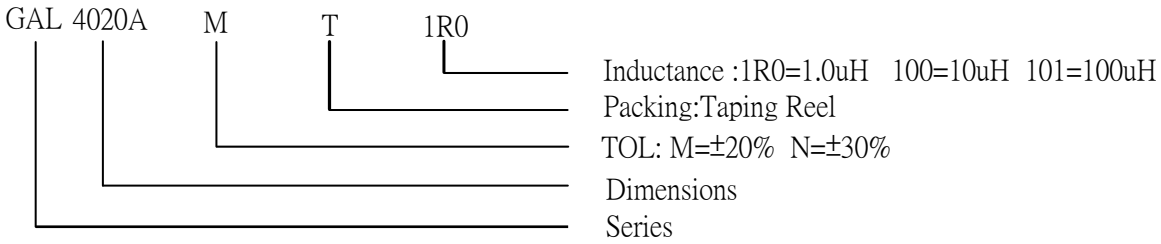
Dimensions and Land Patterns.



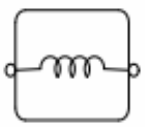
Unit：mm

ITEM	A	B	C	D	E	F	L	G	H
4020A	4.4±0.2	4.4±0.2	1.9±0.2	3.4±0.3	0.88±0.2	1.6±0.25	3.4	1.4	3.8
4020LR	4.4±0.2	4.4±0.2	1.9±0.2	3.4±0.3	0.88±0.2	1.6±0.25	3.4	1.4	3.8
5030A	6.0±0.2	5.7±0.2	2.9±0.2	4.3±0.3	1.1±0.2	2.3±0.25	4.5	2.0	4.7
6060A	7.2±0.2	6.9±0.2	5.8±0.2	5.3±0.3	1.4±0.2	2.6±0.25	5.6	2.5	5.6
6060LR	7.2±0.2	6.9±0.2	5.8±0.2	5.3±0.3	1.4±0.2	2.6±0.25	5.6	2.5	5.6
7030A	8.4±0.3	8.0±0.3	2.9±0.2	Characteristic	1.75±0.2	3.15±0.3	7.4	2.8	7.2
1010A	11.9±0.3	11.0±0.3	9.7±0.3	Characteristic	2.4±0.2	4.4±0.3	10.5	3.7	11.0
1513A	17.5±0.3	16.5±0.3	12.7±0.3	13.2±0.5	3.2±0.2	7.0±0.3	15.0	6.0	15.0

Part Numbering



CIRCUIT DIAGRAM



Electrical characteristics List

GAL4020A Series

Part Number	Inductance (uH) ±20% 100KHz/0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Max.	I rms (A)Max.
GAL4020AMTR10	0.10	2.20	2.42	33.00	18.00
GAL4020AMTR22	0.22	4.10	4.60	18.80	16.80
GAL4020AMTR33	0.33	5.00	5.50	16.50	15.50
GAL4020AMTR36	0.36	5.60	6.30	15.00	14.50
GAL4020AMTR40	0.40	6.90	7.73	13.50	14.00
GAL4020AMTR47	0.47	7.80	8.58	13.00	12.50
GAL4020AMTR56	0.56	8.40	9.30	12.60	12.00
GAL4020AMTR60	0.60	8.60	9.52	12.30	11.70
GAL4020AMTR72	0.72	10.40	11.60	10.60	10.50
GAL4020AMT1R0	1.0	13.30	14.60	8.80	9.60
GAL4020AMT1R2	1.2	16.20	17.90	7.80	9.00
GAL4020AMT1R5	1.5	21.00	23.50	7.40	7.60
GAL4020AMT1R8	1.8	25.00	28.00	7.00	7.00
GAL4020AMT2R2	2.2	35.20	38.70	6.00	5.60

GAL4020LR Series

Part Number	Inductance (uH) ±20% 100KHz/0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Max.	I rms (A)Max.
GAL4020LRMTR47	0.47	6.00	6.80	12.50	13.20
GAL4020LRMTR56	0.56	6.90	7.80	11.30	12.60
GAL4020LRMTR60	0.60	6.90	7.80	11.10	12.40
GAL4020LRMTR68	0.68	7.30	8.20	10.00	12.00
GAL4020LRMTR82	0.82	8.60	9.50	9.00	11.50
GAL4020LRMT1R0	1.0	10.60	11.70	8.00	11.00
GAL4020LRMT1R2	1.2	12.20	13.40	7.50	9.50
GAL4020LRMT1R5	1.5	14.40	15.80	6.70	9.10
GAL4020LRMT2R0	2.0	21.15	23.30	5.00	8.20
GAL4020LRMT12R2	2.2	21.35	23.50	4.80	8.00
GAL4020LRMT3R3	3.3	34.20	38.30	4.40	5.50
GAL4020LRMT4R7	4.7	52.00	57.20	3.50	5.10

Electrical characteristics List

GAL5030A Series

Part Number	Inductance (uH) ±20% 100KHz/0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Max.	I rms (A)Max.
GAL5030AMTR15	0.15	2.10	2.31	32.50	22.20
GAL5030AMTR16	0.16	2.12	2.33	32.00	22.20
GAL5030AMTR28	0.28	3.00	3.30	28.00	19.00
GAL5030AMTR33	0.33	3.20	3.52	26.00	19.20
GAL5030AMTR47	0.47	3.75	4.13	24.00	18.40
GAL5030AMTR56	0.56	4.05	4.52	20.20	17.70
GAL5030AMTR60	0.60	4.11	4.52	20.00	17.70
GAL5030AMTR80	0.80	5.14	5.65	18.00	13.10
GAL5030AMTR82	0.82	5.25	5.78	17.60	12.90
GAL5030AMT1R0	1.0	6.90	7.60	14.30	12.20
GAL5030AMT1R2	1.2	8.80	9.70	13.50	11.00
GAL5030AMT1R5	1.5	10.10	11.20	12.50	10.50
GAL5030AMT1R8	1.8	11.50	12.70	11.30	10.10
GAL5030AMT2R2	2.2	13.20	14.50	9.00	9.70
GAL5030AMT3R3	3.3	21.00	23.10	8.70	8.10
GAL5030AMT3R6	3.6	25.00	27.50	7.90	6.50
GAL5030AMT4R7	4.7	33.00	36.30	7.00	5.90

Electrical characteristics List

GAL6060A Series

Part Number	Inductance (uH) ±20% 100KHz/0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Max.	I rms (A)Max.
GAL6060AMT1R0	1.0	4.0	4.4	19.0	21.0
GAL6060AMT1R5	1.5	5.5	6.1	15.0	17.5
GAL6060AMT2R2	2.2	7.3	8.1	12.5	14.0
GAL6060AMT3R3	3.3	11.1	12.3	11.0	12.0
GAL6060AMT4R7	4.7	15.1	16.2	9.5	11.0
GAL6060AMT5R6	5.6	18.2	20.0	9.1	10.0
GAL6060AMT6R8	6.8	21.0	23.2	8.7	9.0
GAL6060AMT8R2	8.2	26.2	28.9	7.5	7.0
GAL6060AMT100	10.0	33.0	36.3	6.3	5.8

GAL6060LR Series

Part Number	Inductance (uH) ±20% 100KHz/0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Max.	I rms (A)Max.
GAL6060LRMT1R0	1.0	3.90	4.29	16.0	19.0
GAL6060LRMT1R5	1.5	5.10	5.61	14.0	16.0
GAL6060LRMT2R2	2.2	7.00	7.80	12.0	14.0
GAL6060LRMT3R3	3.3	11.00	12.10	10.5	12.0
GAL6060LRMT4R7	4.7	13.10	14.40	9.5	11.0
GAL6060LRMT5R6	5.6	14.30	15.80	9.0	10.0
GAL6060LRMT6R8	6.8	18.90	20.80	8.7	9.0
GAL6060LRMT8R2	8.2	22.50	24.80	8.0	8.0
GAL6060LRMT100	10	26.60	29.30	6.8	7.0
GAL6060LRMT150	15	39.00	43.00	5.2	6.0
GAL6060LRMT220	22	55.00	60.50	5.0	5.0

Electrical characteristics List

GAL7030A Series

Part Number	Inductance (uH) ±20% 100KHz/0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Max.	I rms (A)Max.	D(mm) ±0.3
GAL7030AMTR33	0.33	2.00	2.20	40.0	25.0	6.6
GAL7030AMTR36	0.36	2.10	2.31	37.0	24.0	6.6
GAL7030AMTR60	0.60	2.90	3.20	32.0	23.0	6.6
GAL7030AMT1R0	1.0	4.55	5.00	28.0	21.8	6.6
GAL7030AMT1R5	1.5	7.50	8.25	23.5	15.3	6.6
GAL7030AMT2R2	2.2	12.40	13.70	17.0	13.0	6.2
GAL7030AMT2R7	2.7	14.00	15.40	13.5	11.4	6.2
GAL7030AMT3R3	3.3	16.30	18.00	13.0	10.0	6.2
GAL7030AMT4R7	4.7	24.20	26.70	12.2	9.0	6.2
GAL7030AMT5R6	5.6	30.10	33.20	11.5	7.3	6.2
GAL7030AMT6R8	6.8	38.60	42.50	11.0	6.8	6.2
GAL7030AMT8R2	8.2	44.30	48.73	9.0	5.9	6.2
GAL7030AMT100	10	51.00	56.10	7.0	5.0	6.2

GAL1010A Series

Part Number	Inductance (uH) ±20% 100KHz/0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Max.	I rms (A)Max.	D(mm) ±0.5
GAL1010AMT2R2	2.2	2.5	2.80	29.0	32.0	9.3
GAL1010AMT3R3	3.3	3.7	4.10	23.4	25.0	9.3
GAL1010AMT4R7	4.7	5.2	5.70	21.4	24.0	9.3
GAL1010AMT5R6	5.6	6.5	7.20	19.6	21.2	9.3
GAL1010AMT6R8	6.8	8.1	8.90	18.5	18.5	9.0
GAL1010AMT8R2	8.2	10.8	12.40	16.3	17.1	9.0
GAL1010AMT100	10.0	12.5	13.75	14.6	15.5	9.0
GAL1010AMT150	15.0	17.5	19.30	12.5	13.8	9.0

Electrical characteristics List

GAL1513A Series

Part Number	Inductance (uH) ±20% 100KHz/0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Max.	I rms (A)Max.
GAL1513AMT4R7	4.7	3.00	3.30	40.0	31.0
GAL1513AMT5R6	5.6	3.50	3.90	35.0	29.0
GAL1513AMT6R8	6.8	3.80	4.20	32.0	27.0
GAL1513AMT8R2	8.2	5.10	5.74	29.0	26.0
GAL1513AMT100	10	6.30	7.00	27.0	25.0
GAL1513AMT150	15	6.80	7.50	21.0	22.0
GAL1513AMT220	22	12.60	13.86	19.0	17.0
GAL1513AMT330	33	18.50	22.20	16.0	14.0

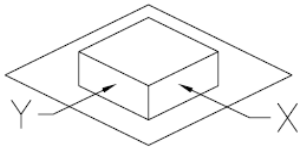
(1).I sat Current: Temp.rise ΔL/L0A 30% Typ

(2).I rms Current: Temp.rise 40˚C Typ

(3).Operating Temperature: -40˚C up to +105˚C

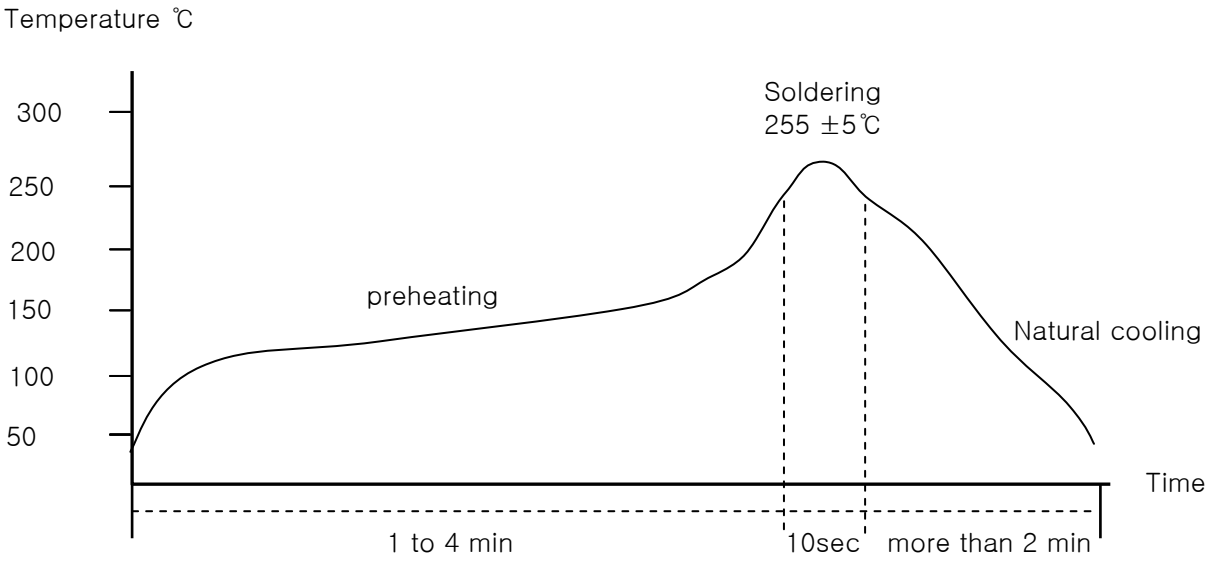
(4).Storage Temperature: 15˚C up to 25˚C, 65% RH max.

RELIABILITY TESTING

Operating Temperature	- 40 to +105 ℃ (Contain Heating coil)
Appearance Inspection	No external defects by visual inspection
Terminal Strength 	After soldering , between copper plaet and terminals of coils , push in two directions of X , Y with standing 10N(1.02kg) for10+/-2 sec. Terminal should not peel off. (Refer to figure at right)
Heat endurance of reflow soldering	Refer to figure
Insulating resistance	Over 10 MΩ at 50V D.C . between wire and core
Dielectric Strength	Apply at 0.5KV 3mA for 1S between wire and core
Temperature characteristics	Inductance coefficient (0~2,000) × 10 / ℃(- 40~ + 105 ℃)
Humidity characteristics	Inductance deviation within ± 10% , after 96 hours in 90~95% relative humidity at 40 ± 2 ℃ and 1 hours drying under normal condition

A test is made under the above mentioned condition , and it is kept for 2 hours in the normal

IR Reflow profile

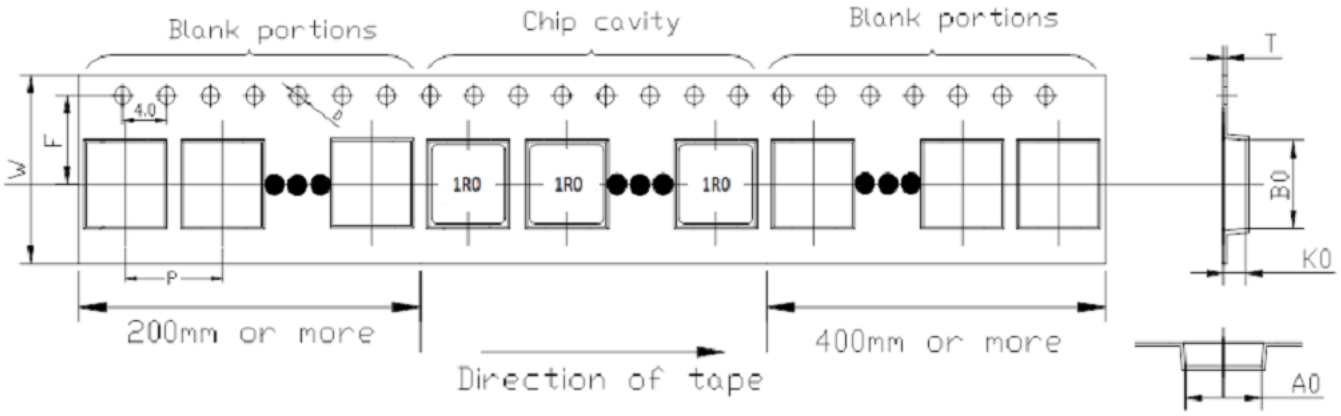


Temperature and humidity . After that , no mechanical and electrical defect should be found .

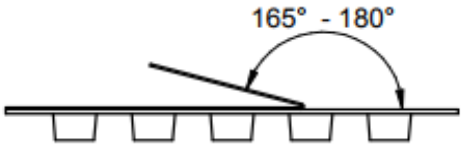
● MATERIAL LIST

NO.	ITEM	DESCRIPTION
1	CORE	Alloy powder
2	WIRE	Polyester Wire
3	TIN	107H
4	INK	BLACK

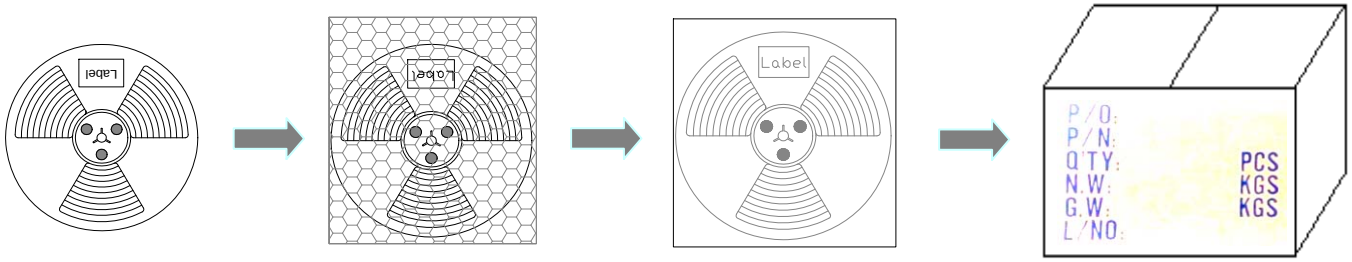
● PACKING SPECFICATIONS



Transparent carrier and cover tape/透明载带和自粘或热封上带，预留前40CM后20CM.



Tape width	Distance	Pull-of force
12 mm	8 mm	10~120g



轮盘：13'(直径330mm)
数量：3000PCS/盘

PE袋
数量：3000PCS/袋

内盒
数量：12000PCS/盒

外箱，数量：60000PCS/箱
不足整箱用内盒或填充物装满