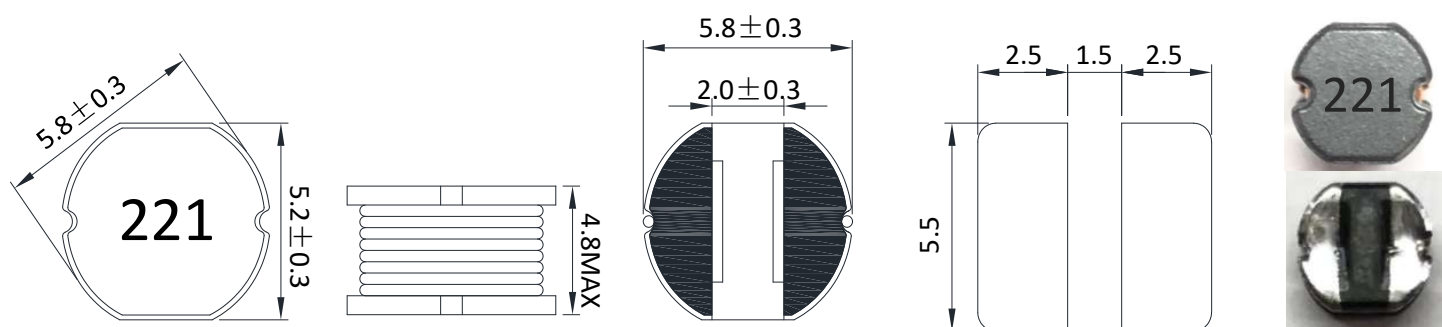
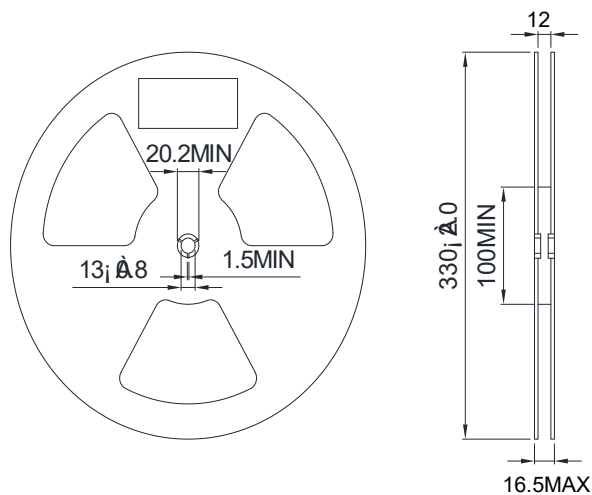
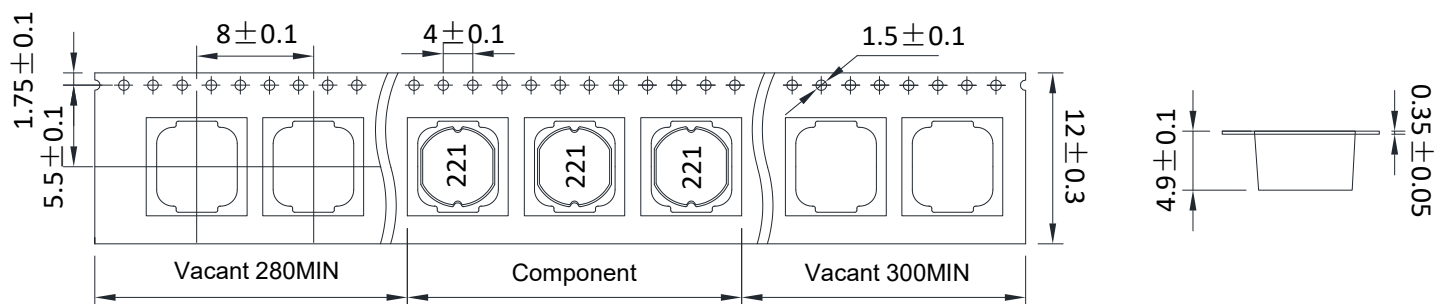


Power Inductors

● Dimension & Appearance (Unit:mm)



● Packing method and dimension and Printing Direction(Unit:mm)



Minimum packing method & packing size		
Number of volumes	Total quantity	Carton size
1 volume	1500pcs	No packing case
4 volume	6000pcs	356*356*80
8 volume	12000pcs	356*356*167
12 volume	18000pcs	358*358*252

● Material list

Item	Material Name	Material Spec	The supplier
1	Magnetic materials	JN4H DR5.8*4.5 B2.4 F2.4	castle technology & Equal manufacturer
2	Enameled wire	G1-H 180℃	Elektrisola & Equal manufacturer
3	Tin	Environment-friendly unleaded	Lu Zhi Dao & Equal manufacturer
4	The packing way	Concave plastic belt pc	Ruifeng & Equal manufacturer
5	The packing way	Plastic disc	Ruifeng & Equal manufacturer
6			
7			
8			
9			
10			

Power Inductors

● Electrical characteristic @25°C

L:		220UH ±10%	AT 100KHz 0.25V		ZX2816B LCR
DCR:		1.35Ω MAX	AT 25℃		CHEN HWA 502B COHM
IDC:		0.55A MAX	AT 100KHz 0.25V		ZX1375XC-25A
Items	Inductance Tolerance	Test Freq	Test Vol	DC Resistance	Rated DC Current
	UH	KHz	V	Ω	A
NO.	220	100	0,25	1,35	0,55
	±10%			MAX	MAX
	S-F			S-F	S-F
1	209,40	100	0,25	1,22	OK
2	208,90	100	0,25	1,23	OK
3	208,00	100	0,25	1,22	OK
4	208,70	100	0,25	1,18	OK
5	208,00	100	0,25	1,23	OK
6	209,50	100	0,25	1,22	OK
7	209,80	100	0,25	1,22	OK
8	207,90	100	0,25	1,19	OK
9	208,80	100	0,25	1,12	OK
10	210,30	100	0,25	1,24	OK
$\bar{X}$	208,9	/	/	1,21	/

Power Inductors

● Reliability Testing Items

No.	Items	Requirements	Test Methods and Remarks
1	Operating Temperature Range	-40℃~+125℃	Including self-heating temperature rise.
2	Soldering Resistance	1.No visible mechanical damage 2.Inductance change:within ±10%	Dip pads in flux and dip in solder pot (96.5sn/3.0Ag/0.5Cu) at 260±5℃ for 10±1 seconds
3	Solderability	90%or more of electrode area shall be coated by new solder	Dip pads in flux and dip in solder pot (96.5sn/3.0Ag/0.5Cu) at 260±5℃ for 5±1 seconds
4	Insulation Resistance	≥100MΩ	100V DC between inductor coil and core for 60 seconds
5	Component Adhesion (Push test)	≥2.0kgf	Inductors shall be subjected to 260±5℃ for 20±5sec Soldering in the base whit 0.3mm solder.And then aplomb electrode wayplus tax 2.0kgf for ten seconds.
6	Over loading	1.There shall be no case deformation or change in appearance 2.The electrical characteristics of inductor to meet the requirements of spec.	Apply twice as rated current for five minutes between inductor terminals,direct current error ±2%
7	Temperature change	1.There shall be no case deformation or change in appearance 2.Inductance shall not change more than ±10%.	+125℃ 1 hour←→-40℃ 1 hour 5 Cycles,Inductors are to be tested after 1 hour at room temperature
8	High temperature	1.There shall be no case deformation or change in appearance 2.Inductance shall not change more than ±10%.	Inductors shall be subjected to+125±5℃for 96±2 hour,Inductors are to be tested after one hour at room temperature
9	Low temperature	1.There shall be no case deformation or change in appearance 2.Inductance shall not change more than ±10%.	Inductors shall be subjected to-40±5℃for 96±2 hour,Inductors are to be tested after one hour at room temperature
10	Life	1.There shall be no case deformation or change in appearance 2.Inductance shall not change more than ±10%.	Inductors shall be store at+125±5℃ for 1000 hours with rated current applide, Normal temperature test

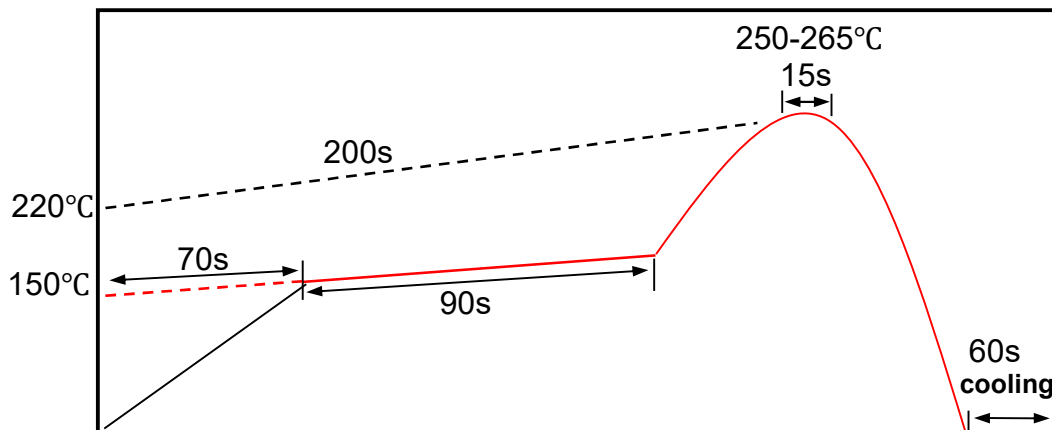
Power Inductors

● Recommend Soldering Conditions

Applicable soldering process to the products is reflow soldering.

Soldering Profile

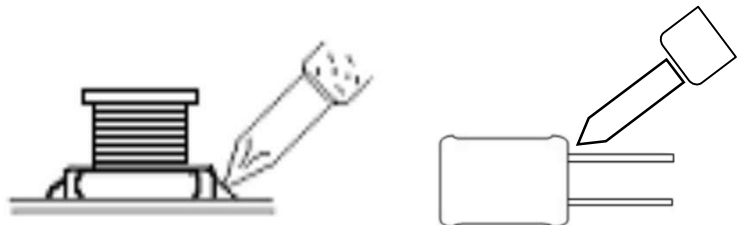
(1) Reflow Soldering Profile



(2) Soldering Iron

Reworking with Soldering Iron must preheating at 150°C for 1 minute is required, and do not directly touch the core with the tip of the soldering iron. The reworking soldering conditions are as follows:

- ① Temperature of soldering iron tip: 350°C;
- ② Soldering iron power output: 30W max.
- ③ Diameter of soldering iron end: 1.0mm max.
- ④ Soldering time: within 3 sec.



● Storage Requirements

(1) Storage Period

To maintain the solderability of terminal electrodes and to keep the packing material in good condition, product should be used within 6 months from the time of delivery. And the solderability of products electrodes may decrease as time passes, so in case of storage over 6 months, solderability shall be checked before actual usage.

(2) Storage Conditions

- (1) Store products in a warehouse in compliance with the following condition:
Temperature: - 10 to +40°C Humidity: 30~70%RH
- (2) Do not subject products to rapid changes in temperature and humidity.
- (3) Do not store the products in chemical atmosphere such as one containing sulfurous acid gas or alkaline gas, that will causes poor solderability and corrosion of inductors.
- (4) Do not store products in bulk packaging to prevent collision among inductors which causes core wire breakage.chipping and
- (5) Store products on pallets to protect from humidity, dust, etc.
- (6) Avoid heat shock, vibration, direct sunlight, etc.