



Coilmaster



RoHS Compliant

SPECIFICATION APPROVAL

CUSTOMER : Dachs

PRODUCT : MS3225LC-220M-LF

Pb-free

CODE NO. : C01932007

CUS. CODE :

SPEC.NO. : C-1932-007(02)

DATE : 29-Jan-07

CUSTOMER APPROVAL

Coilmaster Electronics Co., Ltd.

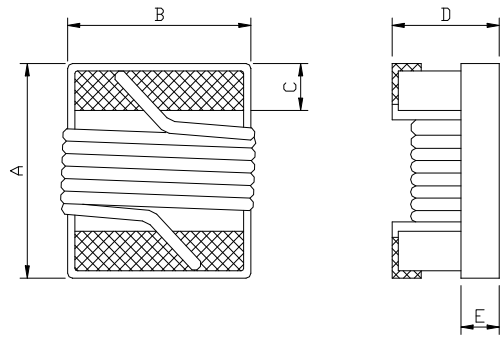
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PREPARED BY	APPROVED BY	AUTHORIZED BY
JEAN	TONY	MASCOT

PRODUCT	MS3225LC-220M-LF	COIL SPECIFICATION	DATE	2007/1/29
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CONFIGURATION & DIMENSIONS :

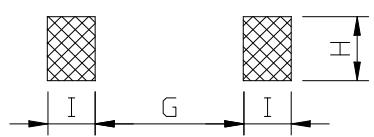


- A : 3.6 Max. m/m
- B : 2.8 Max. m/m
- C : 0.55±0.1 m/m
- D : 2.6 Max. m/m
- E : 0.8 Ref. m/m

ELECTRICAL CHARACTERISTIC :

RECOMMENDED FOOTPRINT :

INDUCTANCE AT 2.52MHz : 22uH±20%
 Q : 10 Min.
 SRF(MHz) : 16 Min.
 DC RESISTANCE(Ω) : 0.82 Max.
 IDC(mA) : 400 Max.



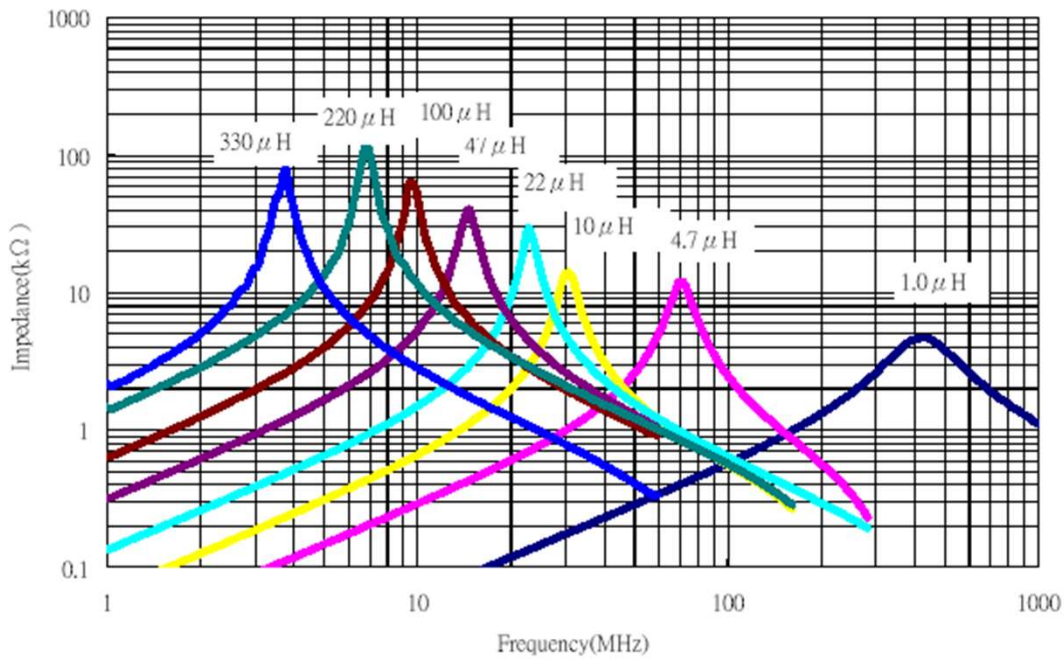
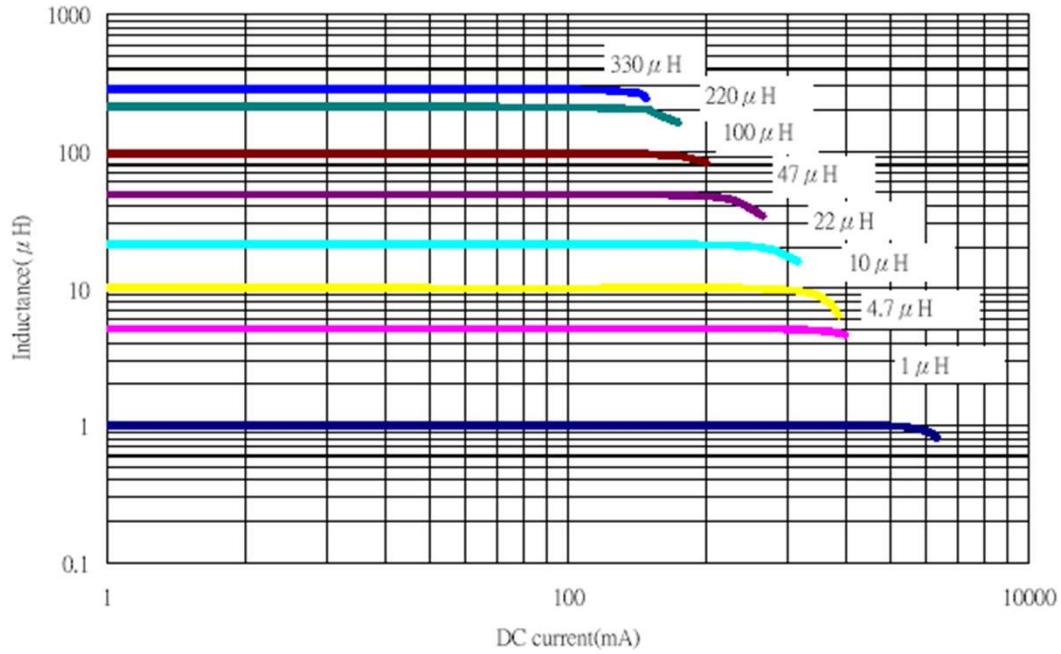
- G : 1.78 m/m
- H : 2.80 m/m
- I : 1.02 m/m

TEST DATA

ELECTRICAL CHARACTERISTICS					DIMENSION			
MEAS. ITEM	L(uH)	Q	DCR(Ω)	SRF(MHz)	A	B	C	D
TEST FREQ	2.52MHz	Min.	Max.	Min.	m/m	m/m	m/m	m/m
YOUR								
SPEC.	22uH±20%	10	0.82	16	3.6 Max.	2.8 Max.	0.55±0.1	2.6 Max.
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
X	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Characteristics(Reference)



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TEST ITEMS	SPECIFICATIONS	TEST CONDITIONS / TEST METHODS		
Reliability Test				
Solderability	The metalized area must have 90% minimum solder coverage.	Dip pads in flux and dip in solder pot(63 Sn/37 Pb or 96.5 Sn/3.5 Ag solder) at 255°C ±5°C.		
Resistance to soldering heat	There must be no case deformation or change in dimensions. Inductance must not change more than the stated tolerance.	Inductors shall be reflowed onto a PC board using 96.5 Sn/3.5 Ag or 63 Sn/37 Pb solder paste. Solder process shall be at a maximum temperature of 260°C. For 63 Sn/37 Pb solder paste: >183°C for 120 seconds. For 96.5 Sn/3.5 Ag solder paste:>217°C for 90 seconds		
Vibration	There must be no case deformation or change in dimensions. Inductance must not change more than the stated tolerance.	Solder specimen inductor on the test printed circuit board. Apply vibrations in each of the x,y and z directions for 2 hours for a total of 6 hours. Frequency : 10~50 Hz Amplitude : 1.5mm		
High temperature	There must be no case deformation or change in dimensions. Inductance must not change more than the stated tolerance.	Inductors shall be subjected to temperature 85°C for 500±12 hours. Measure the test items after leaving the inductors at room temperature and humidity for 2 hours.		
Static Humidity	Inductors must not have a shorted or openwinding.	Inductors shall be subjected to temperature 85°C and 90 to 95%RH. for ten 24-hours. Measure the test items after leaving the inductors at room temperature and humidity for 2 hours.		
Component adhesion (push test)	Inductors shall be subjected to 1.8 Kg	Inductors shall be reflow soldered (232°C ±5°C for 10 seconds) to a tinned copper substrate. A force gauge shall be applied to the side of the component. The device must withstand the stated force without a failure of the termination.		

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TEST ITEMS	SPECIFICATIONS	TEST CONDITIONS / TEST METHODS		
Low temperature storage	There must be no case deformation or change in dimensions. Inductance must not change more than the stated tolerance.	Inductors shall be subjected to temperature $-40\pm 2^{\circ}\text{C}$ for 48 ± 12 hours. Measure the test items after leaving the inductors at room temperature and humidity for 1 to 2 hours.		
Resistance to solvent	There must be no case deformation, change in dimensions, or obliteration of marking.	Inductors must withstand 6 minutes of alcohol or water.		
Thermal shock	There must be no case deformation or change in dimensions. Inductance must not change more than the stated tolerance.	Inductors shall be subjected to 10 cycles to the the following temperature cycle: <div style="text-align: center;"> <p>The diagram illustrates a temperature cycle. It starts at a baseline, drops to -40°C and holds for 30 min. Then it ramps up to $+125^{\circ}\text{C}$ in 30 sec, holds at $+125^{\circ}\text{C}$ for 30 min, and finally ramps down to -40°C in 30 sec. The entire sequence is labeled as '1 cycle'.</p> </div> Measure the test items after leaving the inductors at room temperature and humidity for 2 hours.		

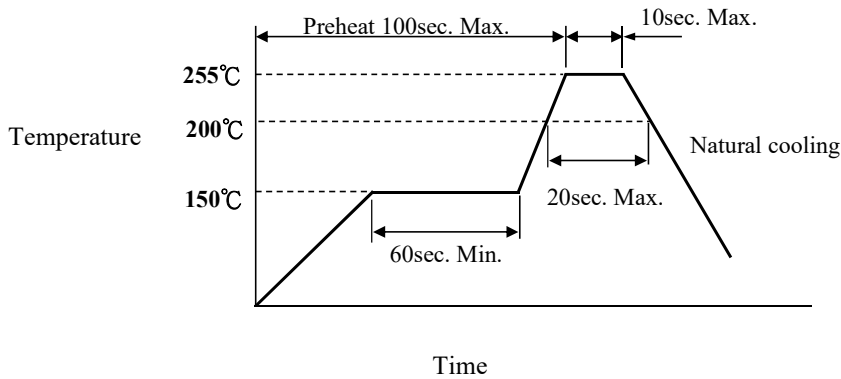
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Recommended Soldering Conditions (Please use this product by reflow soldering)

Recommended Reflow Pattern

Reflow : until two times



Iron Soldering

Use a solder iron of less than 30W when soldering ,do not allow directly touch the Ceramic body outside of terminal electrode.

3 seconds max. at 260°C.

Attention in Case of Using

In case of using product ,please avoid following matters:

- Splashing water or salt water
- Dew condenses
- Toxic gas (Hydrogen sulfide, Sulfurous acid ,Chlorine, Amm
- Vibrations or shocks which exceed the specified condition

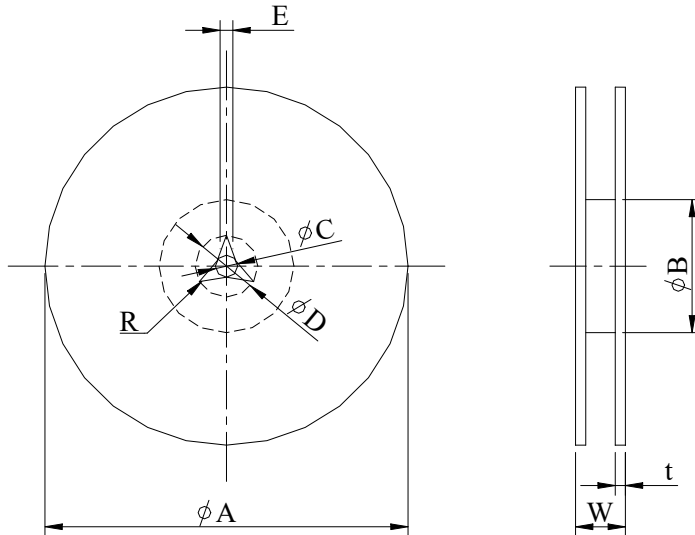
Please be careful for the stress to this product by board flexure or :

Others

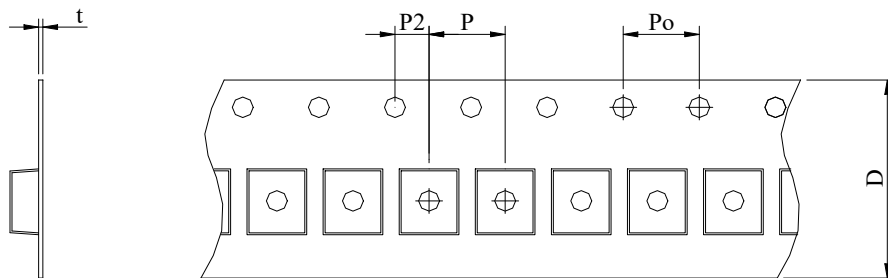
- 9-1 Operating temperature range : -40~+125°C
- 9-2 Storage temperature range : -40~+85°C
- 9-3 Temperature rise : Below 20°C
- 9-4 Humidity range : 0~90%R.H.

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PACKAGE :



T(ϕ 180mm) Reel	A	B	C	D	E	W	t	R
	ϕ 180	ϕ 60	ϕ 13	—	—	14.4	—	—

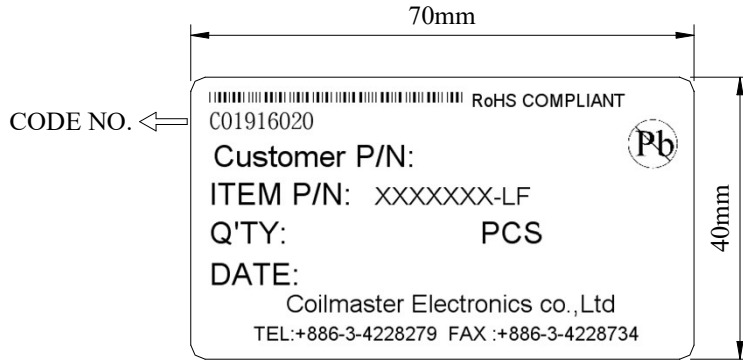


Reel/pcs	P	Po	P2	t	D
2000	4	4	2	1	8

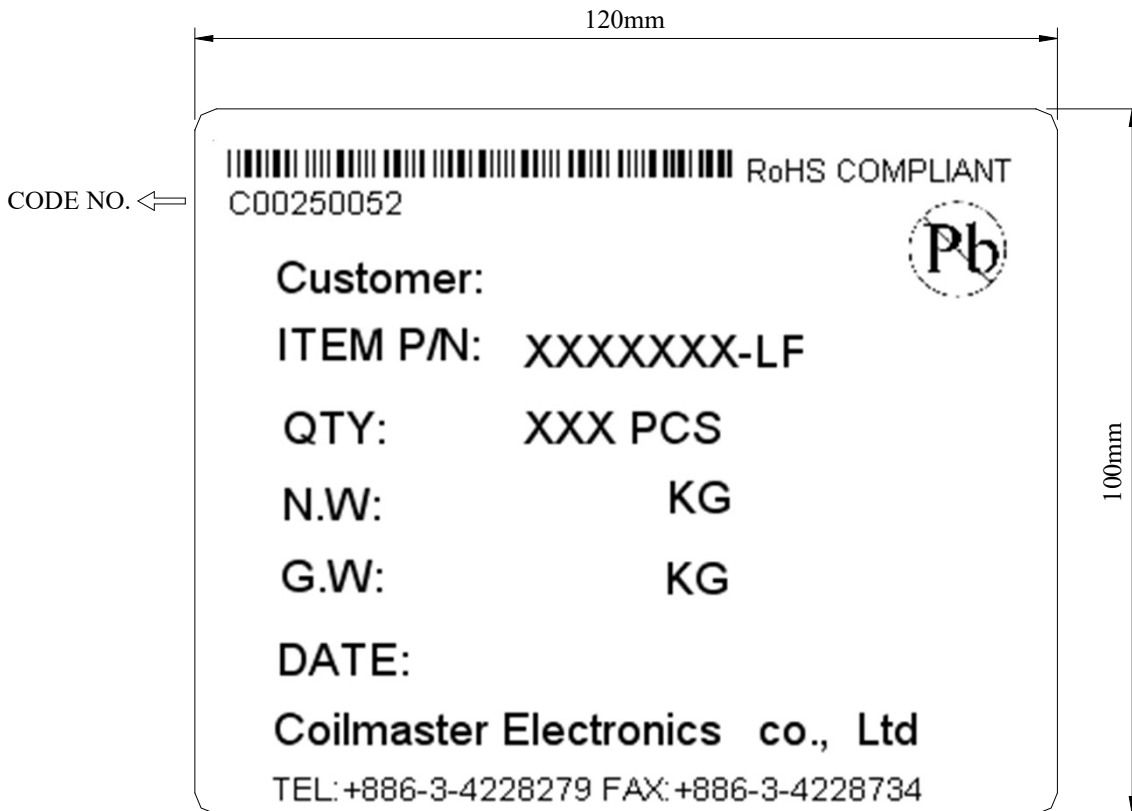
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TABLE :



INNER BOX LABEL



OUT BOX LABEL

COILMASTER ELECTRONICS CO., LTD.