

规格确认书

SPECIFICATION

客 户

CUSTOMER: _____

客 户 料 号

CUSTOMER P/N: _____

物 料 名 称

共模线性滤波器

MODEL NO : _____

Common mode line filte

料 号

HLCM 系列

P/N :

HLCM series

文 件 编 号

FILE NO :

23-07

日期 : 2023-07-06

承办人 : 刘俊

DATE : July 06, 2023

ISSUEDER : Liu Jun

客户确认 APPROVED BY

签名 :

日期 :

SIGN :

DATE :

结论 RESULT :

确认后请回传 PLEASE RETURN BY ONE COPY

●特征

额定电流高达 1.6A。
电感范围：10 至 6500μH。
符合 RoHS 标准*且无卤素**。

●用途

抗电磁波干扰。

●品名系统

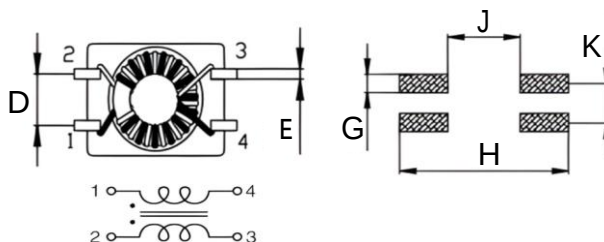
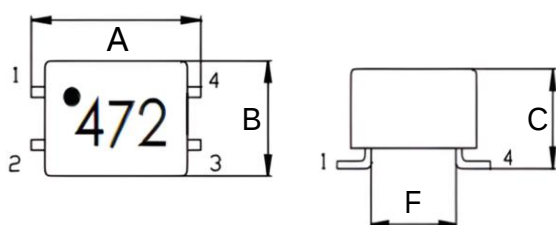
HLCM 0905 C - 100 Y

① ② ③ ④ ⑤

- ① 产品代号: 共模线性滤波器。
- ② 尺寸规格: 0904=9.5x5.6x5.2(mm)
0905=9.5x6.3x5.3(mm)
- ③ 类型: C=封闭式
- ④ 阻抗: 100=10μH
- ⑤ 电感量公差:见规格表。

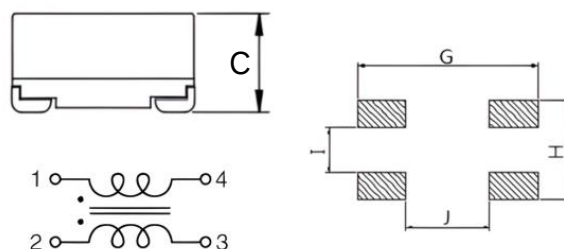
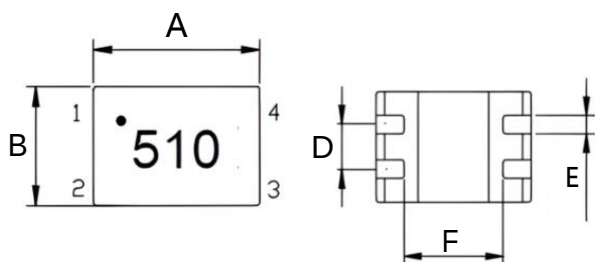
●结构及尺寸

HLCM0904



Unit:mm

TYPE	A	B	C	D	E	F	G	H	J	K
	Max	Max	Max	±0.5	Typ	Typ	Typ	Typ	Typ	Typ
0904	9.5	5.6	5.2	2.54	0.5	5.50	1.00	10.50	4.50	2.54



Pad Layout

Unit:mm

TYPE	A	B	C	D	E	F	G	H	I	J
	Max	Max	Max	±0.2	±0.1	Typ	Typ	Typ	Typ	Typ
0905	9.5	6.3	5.3	2.54	1.0	5.70	9.50	3.74	1.34	5.50

●FEATURES

Current rating up to 1.6 A.
Inductance range:10 to 6500μH.
RoHS compliant* and halogen free**.

●Applications

EMI suppression.

●Product Identification

HLCM 0905 C - 100 Y

① ② ③ ④ ⑤

- ① Product symbol : Common Mode Line Filte
- ② Dimension: 0904=9.5x5.6x5.2(mm)
0905=9.5x6.3x5.3(mm)
- ③ Type:C=enclosed.
- ④ Impedance: 100=10μH.
- ⑤ Tolerance:See Spec Table.

●Structure And Dimension

●规格

●Specifications

HLCM0904系列 (TYPE)

Part Number	Inductance +50%/-30% @100KHz/0.1V	Leakage Inductance(Typ) L1-4(2-3short) @100KHz/0.1V	DCR (mΩ)Max	Current Rating(A)	Impedance (Ω)Min	Freq.range (MHz)	Rated Volt (Vdc)Max.
HLCM0904-6R0Y	6uH	0.03uH	100	2.5	300	20-300	50V
HLCM0904-110Y	11uH	0.08uH	120	0.5	160	20-300	50V
HLCM0904-250Y	25uH	0.15uH	200	0.5	450	20-150	50V
HLCM0904-510Y	51uH	0.20uH	300	0.5	800	20-100	50V
HLCM0904-101Y	100uH	0.25uH	100	0.5	600	3-20	50V
HLCM0904-471Y	470uH	0.28uH	280	0.5	1200	2-15	50V
HLCM0904-102Y	1000uH	0.28uH	300	0.5	1800	1-10	50V
HLCM0904-222Y	2200uH	0.29uH	400	0.5	3000	0.8-5	50V
HLCM0904-272Y	2700uH	0.30uH	480	0.4	1500	0.8-5	50V
HLCM0904-302Y	3000uH	0.30uH	520	0.35	1500	0.8-5	50V
HLCM0904-472Y	4700uH	0.30uH	700	0.2	5000	0.5-3	50V

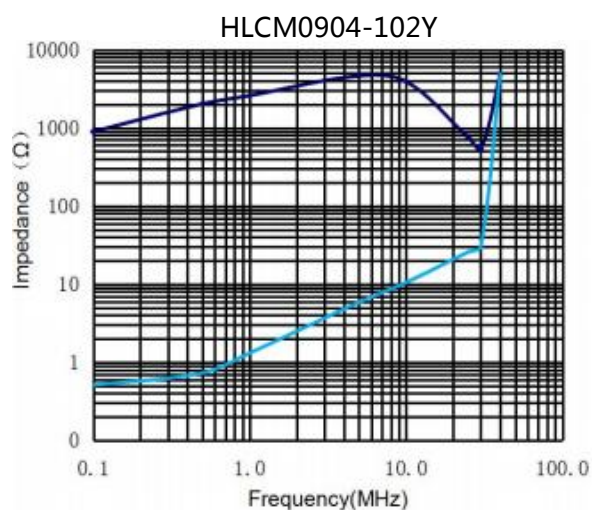
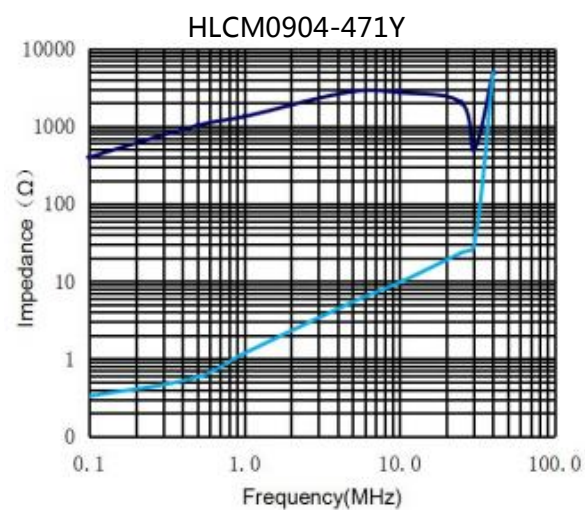
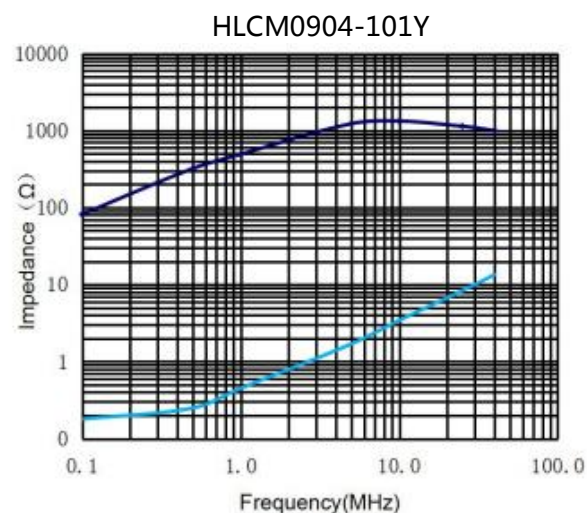
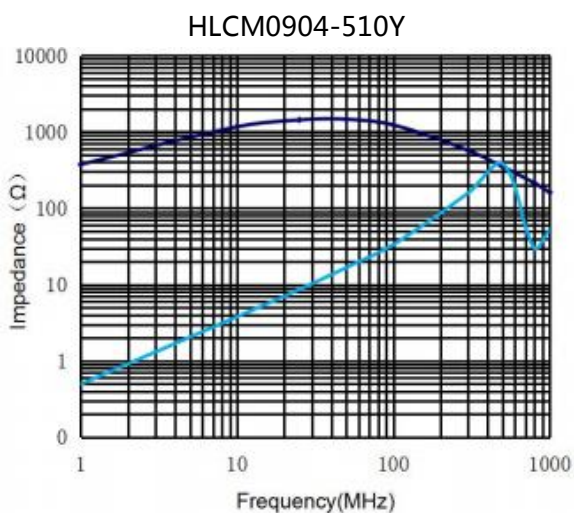
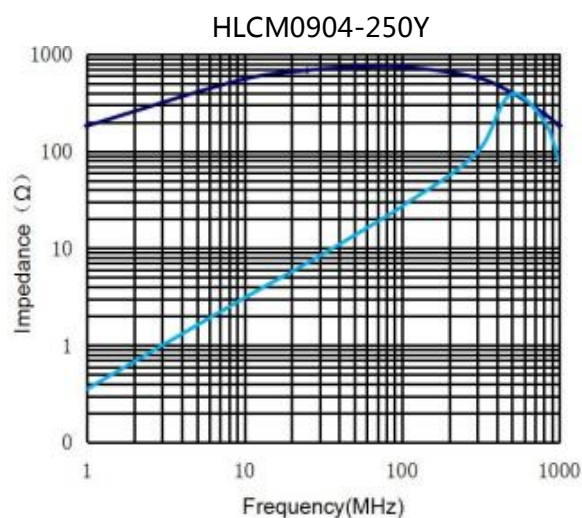
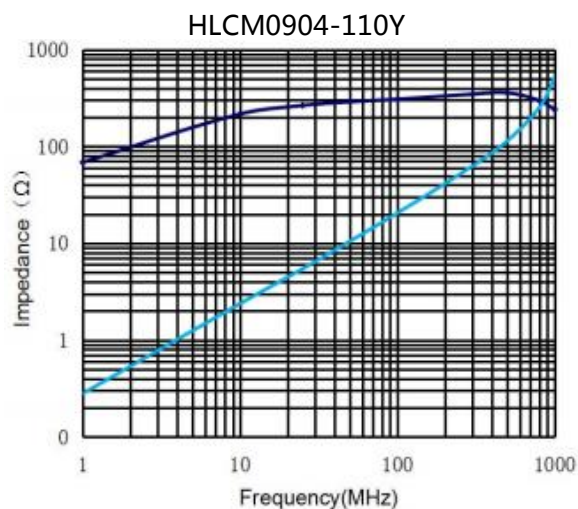
HLCM0905系列 (TYPE)

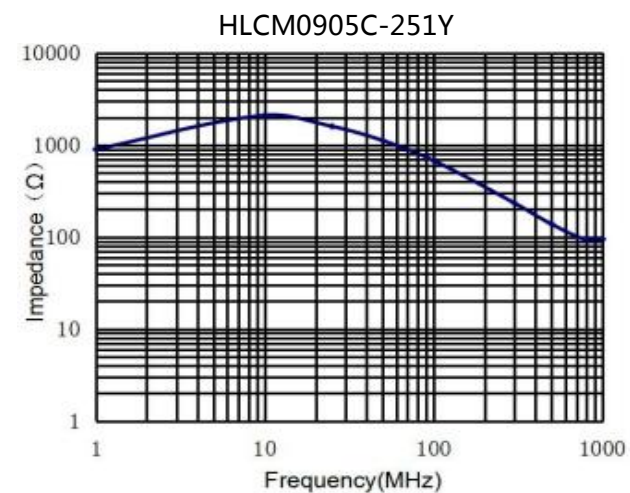
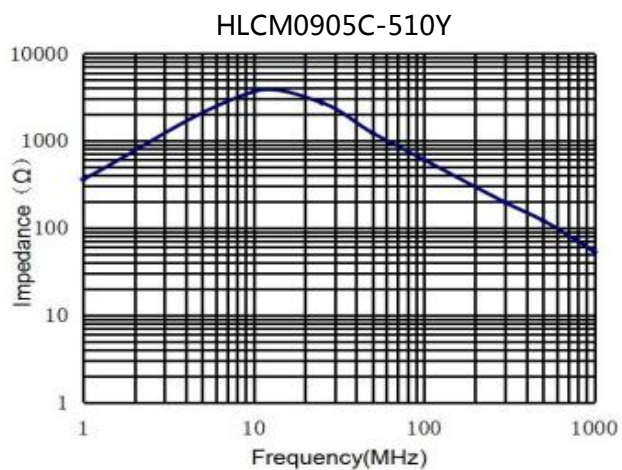
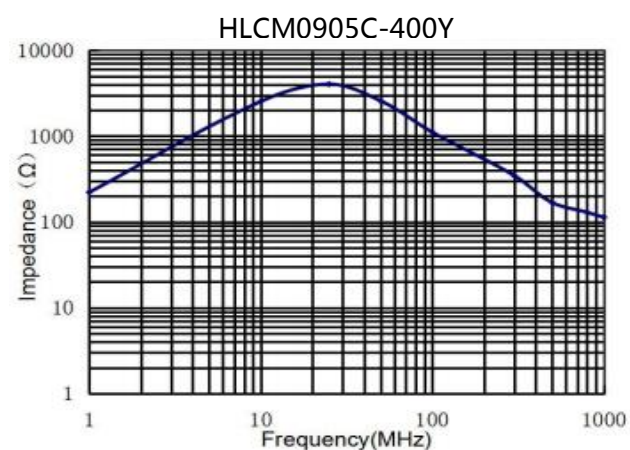
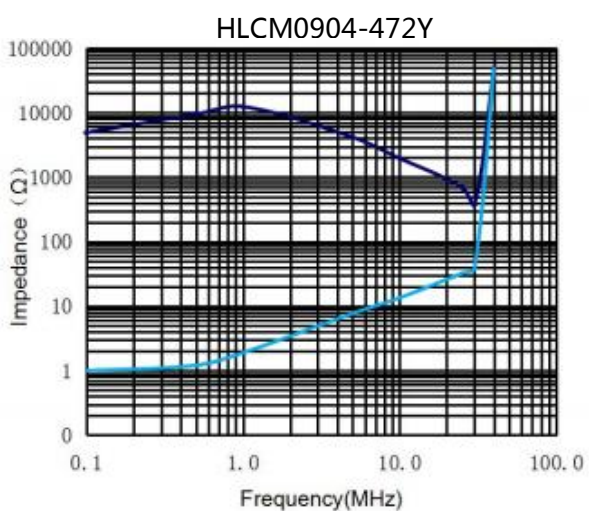
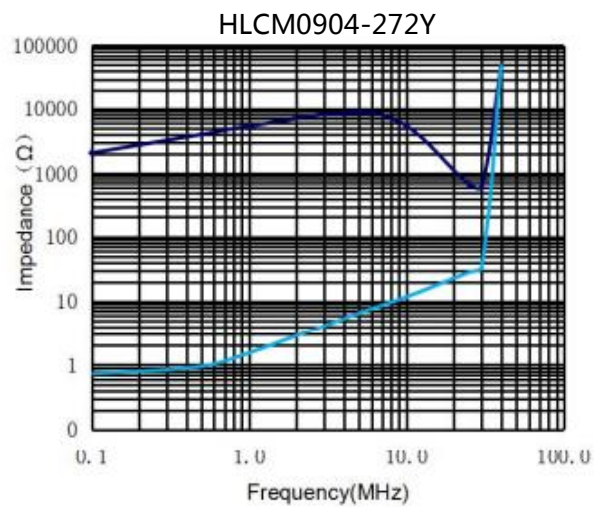
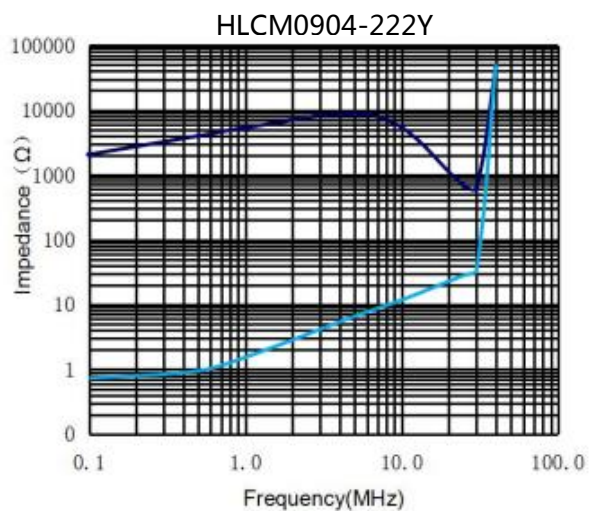
Part Number	Inductance L1=L2 (uH)	Test Frequency	DCR (Ω)Max	Current Rating(A)	Impedance (Ω)Min	Freq.range (MHz)	Rated Volt (Vdc)Max.	IR(Ω) Min.
HLCM0905C-100Y	10+50%/-30%	1KHz/0.1V	0.08	1.6	300	20-200	50V	10M
HLCM0905C-250Y	25+50%/-30%	1KHz/0.1V	0.16	1	600	5-100	50V	10M
HLCM0905C-400Y	40+50%/-30%	1KHz/0.1V	0.25	0.9	800	5-100	50V	10M
HLCM0905C-510Y	51+50%/-30%	1KHz/0.1V	0.32	0.8	1000	5-50	50V	10M
HLCM0905C-251Y	250±50%	100KHz/5mV	0.13	1.2	600	5-50	50V	10M
HLCM0905C-471Y	470±50%	100KHz/5mV	0.14	1.1	800	1-50	50V	10M
HLCM0905C-501Y	500±50%	100KHz/5mV	0.15	1	900	1-40	50V	10M
HLCM0905C-102Y	1000±50%	100KHz/5mV	0.31	0.8	1000	1-30	50V	10M
HLCM0905C-202Y	2000±50%	100KHz/5mV	0.42	0.6	3000	1-10	50V	10M
HLCM0905C-472Y	4700±50%	100KHz/5mV	0.9	0.4	3000	0.5-5	50V	10M
HLCM0905C-652Y	6500±50%	100KHz/5mV	1.05	0.3	4000	0.3-2	50V	10M

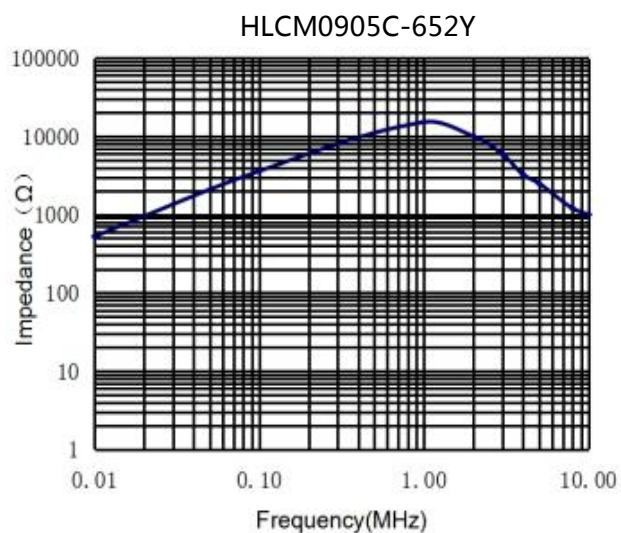
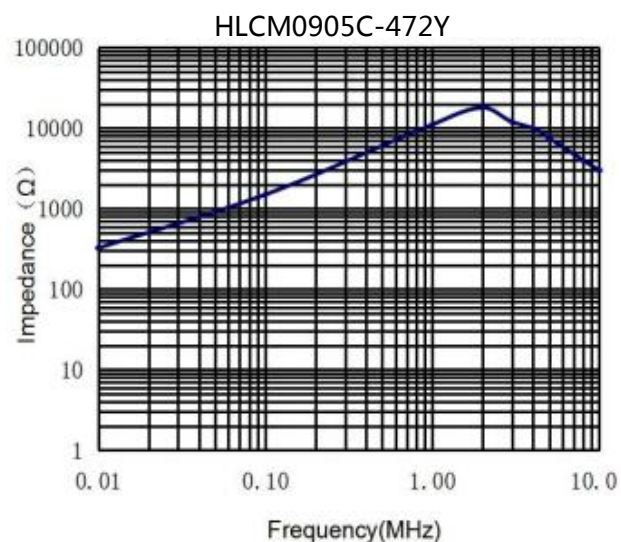
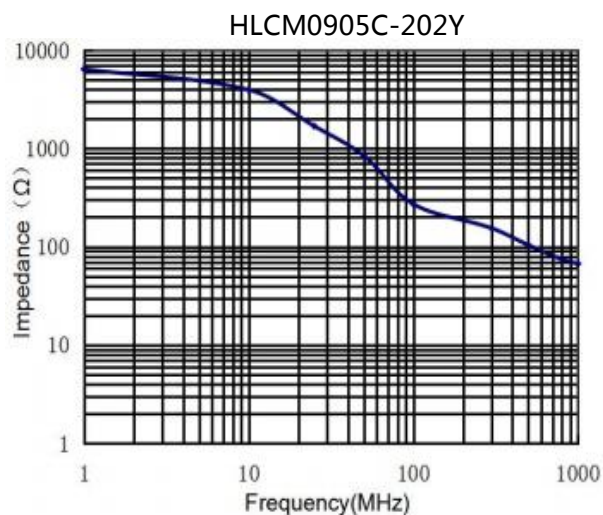
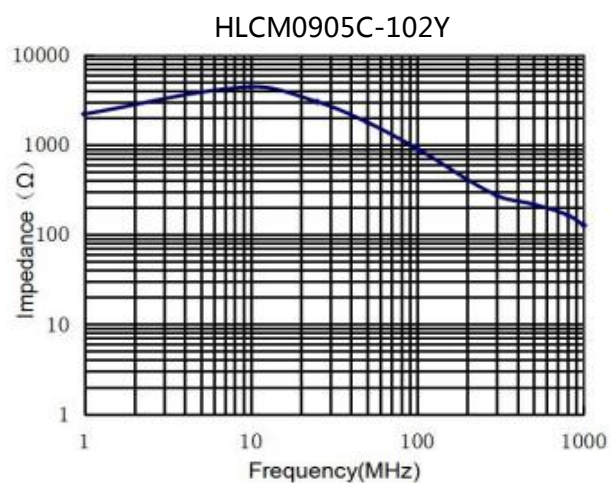
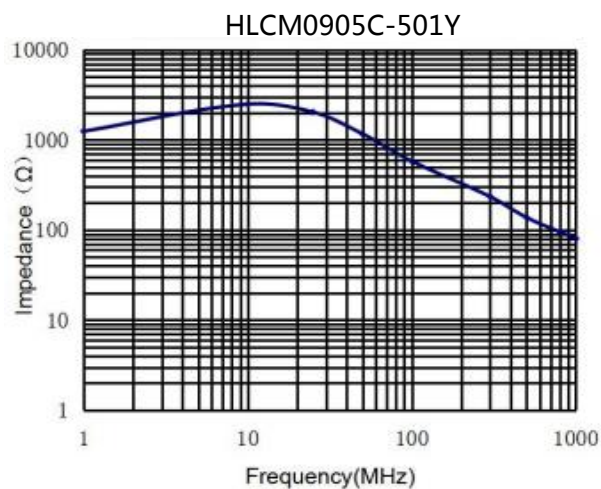
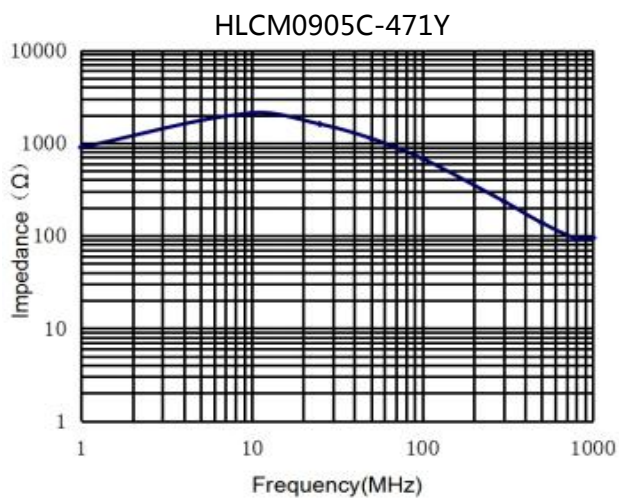
Remark

- (1).Rated Current:Temp.rise 40°C Typ.
- (2).Operating Temperature:-40°C up to +125°C (Temperature rise included)
- (3).Storage Temperature:15°C up to 25°C,65%RH max.
- (4).The temperature of electrical characteristic test is 25°C indoor temperature.

● 特征曲线/CHARACTERISTICS(REFERENCE)







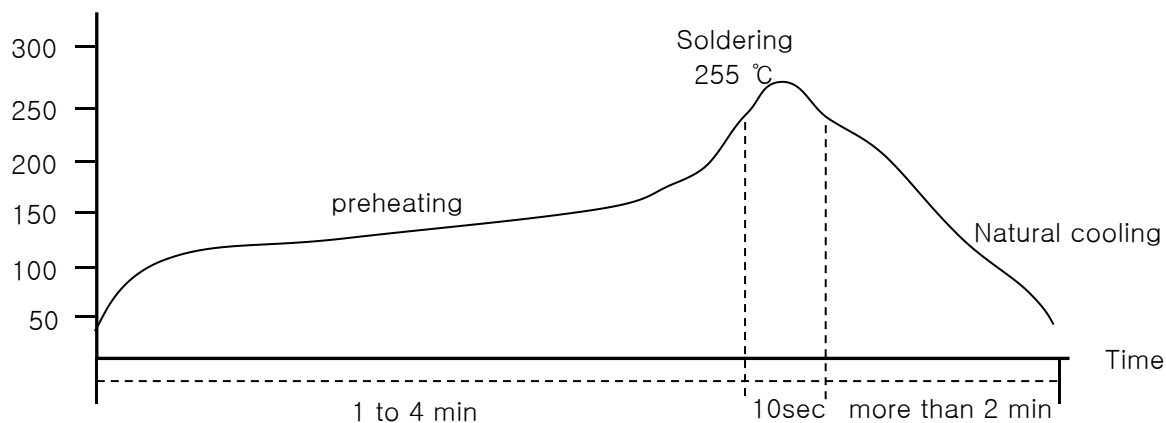
●可靠性测试/RELIABILITY TESTING

Operating Temperature	-40°C to +125 °C (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 100 MΩ at 100V D.C . between wire and core
Dielectric Strength	Apply at 0.5KV 3mA for 1 minute between wire and core
Temperature characteristics	Inductance coefficient (0~2,000) × 10 / °C(- 40~ + 125 °C)
Humidity characteristics	Inductance deviation within ± 10% , after 96 hours in 90~95% relative humidity at 40 ± 2 °C 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 °C



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