

SPECIFICATION FOR APPROVAL

CUSTOMER: _____ PART NO: 20220512G01

DESCRIPTION: FCLH1608-82NG-NP SUBMIT NO: _____

QUANTITY: _____ PCS DATE: 2022/5/12

方瑞达电子（香港）有限公司		
FONRITA ELECTRONICS (H.K) CO., LTD.		
MADE	CHECKED	APPROVED
张达	黎敏	邓锋

贵公司承认栏		
APPROVED BY MANGEMNT		
MADE	CHECKED	APPROVED



方瑞达电子（香港）有限公司

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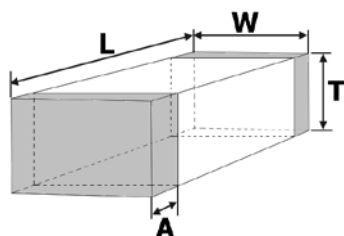
TEL:0755-26617190

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CUSTOMER :		PART NO.	20220512G01
SPECIFICATIONS		DATE	2022/5/12
PART NAME	DATA SHEET	SPEC(TYPE)	FCLH1608-82NG-NP

TEST INSTRUMENT

- 1. HP 4285A PRECISION LCR METER
- 2. WAYNE PMA3260A LCR METER
- 3. ZENTECH 9052 PROGRAMMABLE AUTO SAFETY TESTER
- 4. WAYNE KERR 3265A CURRENT SOURCE



L	1.6±0.15	m/m
W	0.8±0.15	m/m
T	0.8±0.15	m/m
A	0.3±0.2	m/m

● **PRODUCT IDENTIFICATION:**

FCLH 16 08 - 82N G - NP
 1 2 3 4 5 6

- 1.PRODUCT SYMBOL 2.OUT SIDE DIA:mm
- 3.BODY HEIGHT:mm 4.INDUCTANCE:nH
- 5.TOLERANCE:S=±0.3nH G=±2% J=±5%
- 6.Meet ROHS Regulations of Prohibited 6 Poisonous Materials

ELECTRICAL CHARACTERISTICS								
ITEM	L (nH)	RDC(Ω)	IDC(mA)	Q	SRF(GHz)			
SPEC.	100MHz	Max.	Max.	Min.	Min.			
	82±2%	0.95	300	12	0.6			
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
\bar{X}								
R								
TEST CONDITION	TEMP:	25°C			HUMIDITY:	50%		
MADE BY		CHECKED BY			APPROVED BY			
张达		黎敏			邓锋			



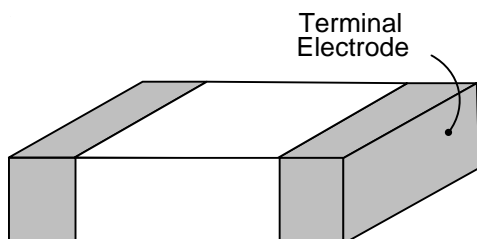
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CUSTOMER :		PART NO.	20220512G01
SPECIFICATIONS		DATE	2022/5/12
PART NAME	MATERIAL LIST	SPEC(TYPE)	FCLH1608-82NG-NP

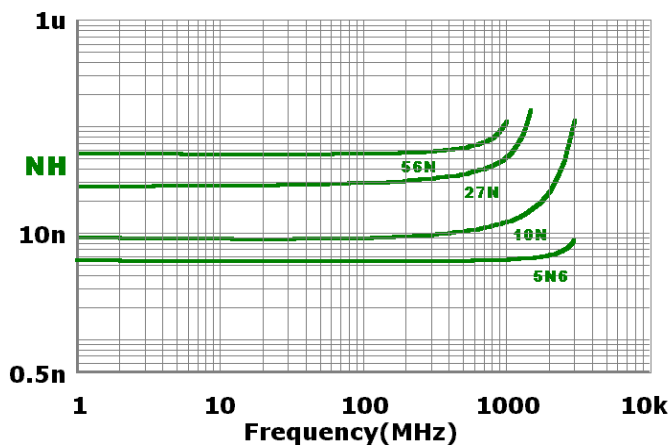
- Rating:
Operating Temperature: -25°C~85°C
Storage Temperature: -25°C~85°C

- Marking:

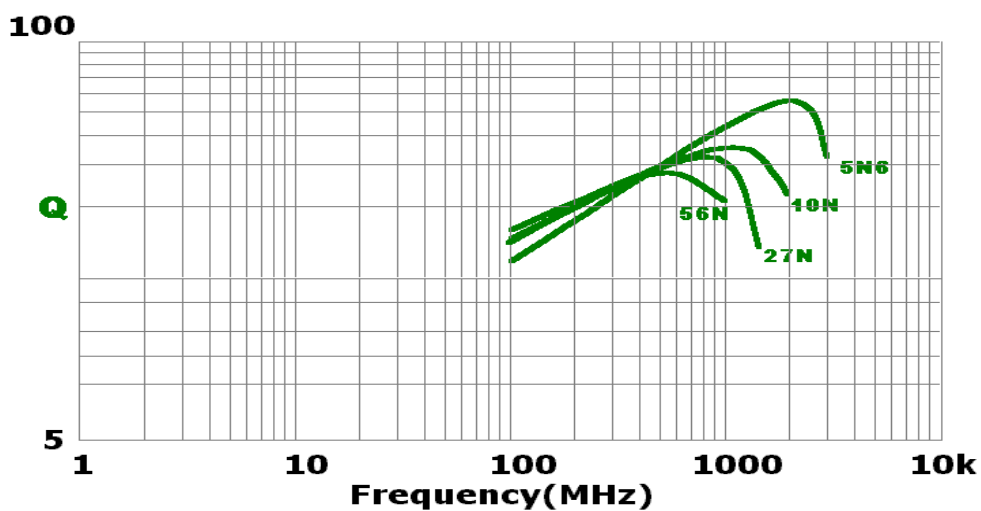


- Specification

INDUCTANCE VS FREQUENCY CHARACTERISTICS

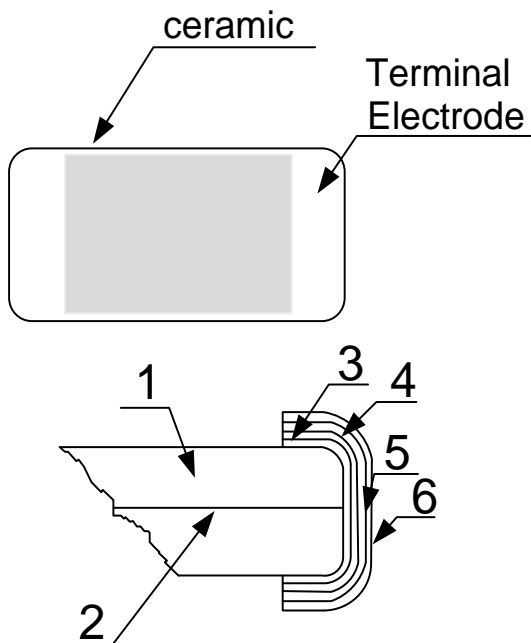


Q VS FREQUENCY CHARACTERISTICS



CUSTOMER :		PART NO.	20220512G01
SPECIFICATIONS		DATE	2022/5/12
PART NAME	Series Specification	SPEC(TYPE)	FCLH1608-82NG-NP

■ Construction:



NO	PART	MATERLAL
1	Main Substance	A12o3-B203-Sio2
2	Silver electrode	Ag
3	Silver electrode	Ag
4	Cu plating	Cu
5	Ni plating	Ni
6	Sn plating	Sn

■ Standard Testing Condition

	Unless otherwise specified	In case of doubt
Temperature	Ordinary Temperature(15 to 35℃)	20±2℃
Humidity	Ordinary Humidity(25 to 85% RH)	60 to 70 % RH



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CUSTOMER :		PART NO.	20220512G01
SPECIFICATIONS		DATE	2022/5/12
PART NAME	MATERIAL LIST	SPEC(TYPE)	FCLH1608-82NG-NP

■ Reliability of High Frequency ceramic Chip Inductors (FCLH SERIES)

1.Mechanical Performance

NO	Item	Specification	Test Method
1	Flexure Strength	Appearance :No damage L change :within±0.5nH Q change :within±30%	Test device shall be soldered on the substrate Substrate Dimension:100*40*1.6mm Deflection:2.0mm Keeping Time:30sec For 100505,substratedimension is 100*40*0.8mm
2	Vibration		Test device shall be soldered on the substrate Oscillation Frequency : 10 to 55to 10Hz for 1min Amplitude : 1.5mm Time : 2hrs for each axis (X , Y & Z), TOTAL
3	Resistance to Soldering Heat	Appearance :No damage More than 75% of the terminal Electrode should be covered with solder. Impedance: with in ±15% of initial value. Q: within±30%of initial value	Pre-heating: 150°C , 1min Solder Composition: Sn/3.0Ag/0.5Cu Solder Temperature:260±5°C Immersion Time:10±1SEC Measured after exposure in the room condition for 24hrs
4	Solderability	The electrodes shall be at least 90% covered with new solder coating	Pre-heating : 150°C, 1min Solder Composition :Sn / Ag =96.5/3.5 Solder Temperature :245±5°C Immersion Time :4±1sec



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■ Reliability of High Frequency ceramic Chip Inductors (FCLH SERIES)
Environmental Performance

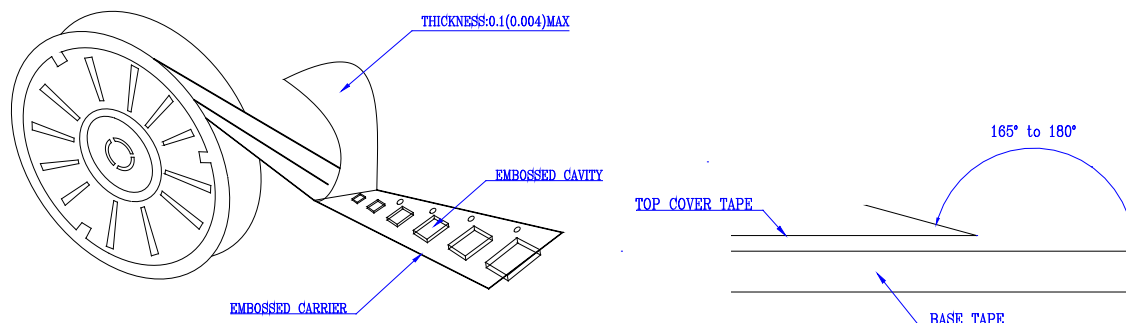
NO	Item	Specification	Test Method		
1	Temperature Cycle	Appearance : No damage	Once cycle:		
		L change : within±0.5nH	Step	Temperature (°C)	Time(min)
		Q change : within±30%	1	-25±3	30
			2	25±2	3
			3	85±3	30
			4	25±2	3
			Total:100cycles		
	Measured after exposure in the room condition for 24hrs				
2	Humidity Resistance		Temperature :40±2°C Relative Humidity : 90~95% Time : 1000hrs Measured after exposure in the room condition for 24hrs		
3	Heat Temperature Resistance		Temperature :85±3°C Relative Humidity :20% Applied Current: Rated Current Time :1000hrs Measured after exposure in the room condition for 24hrs		
4	Low Temperature Resistance		Temperature :-25±3°C Relative Humidity:0% Time : 1000hrs Measured after exposure in the room condition for 24hrs		



CUSTOMER :		PART NO.	20220512G01
SPECIFICATIONS		DATE	2022/5/12
PART NAME	CARRIER & REEL	SPEC(TYPE)	FCLH1608-82NG-NP

■ **PACKAGING**

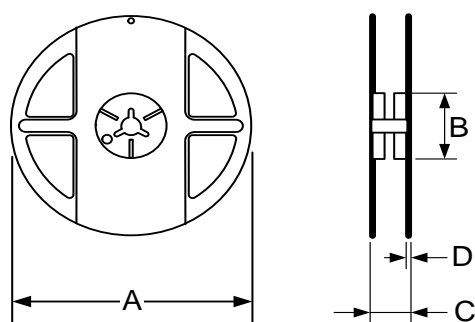
Packaging – Cover tape



Packaging Quantity

TYPE	BULK	PCS/REEL
FCLH-1608	√	4000

■ **REEL DIMENSION :m/m**



TYPE	A	B	C
FCLH-1608	178	60	12



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