

LQH43CN1R0M33L Datasheet

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DiGi Electronics Part Number Manufacturer Manufacturer Product Number Description Detailed Description

LQH43CN1R0M33L-DG

Murata Electronics

LQH43CN1R0M33L

FIXED IND 1UH 2.6A 42 MOHM SMD

1 μH Unshielded Drum Core, Wirewound Inductor 2 .6 A 42mOhm Max 1812 (4532 Metric)



Tel: +00 852-30501935

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
LQH43CN1R0M33L	Murata Electronics
Series:	Product Status:
LQH43	Discontinued at Digi-Key
Туре:	Material - Core:
Drum Core, Wirewound	Ferrite
Inductance:	Tolerance:
1 µН	±20%
Current Rating (Amps):	Current - Saturation (Isat):
2.6 A	
Shielding:	DC Resistance (DCR):
Unshielded	42mOhm Max
Q @ Freq:	Frequency - Self Resonant:
-	110MHz
Ratings:	Operating Temperature:
	-40°C ~ 85°C
Inductance Frequency - Test:	Mounting Type:
1 MHz	Surface Mount
Package / Case:	Supplier Device Package:
1812 (4532 Metric)	1812 (4532 Metric)
Size / Dimension:	Height - Seated (Max):
0.177" L x 0.126" W (4.50mm x 3.20mm)	0.110" (2.80mm)
Base Product Number:	
LQH43CN	

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8504.50.8000	

Reference Only

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CHIP COIL (CHIP INDUCTOR) for Consumer equipment & Industrial equipment LQH43CN

1.Scope

This reference specification applies to chip coil (chip Inductor) LQH43CN_33 series.

1.1 Specific applications:

- Power equipment: Products that can be used in power equipment such as renewable energy equipment, energy storage
 equipment and EV charging equipment and whose functions are not directly related to the protection of human life and
 property.
- Industrial equipment: Products that can be used in industrial equipment such as base stations, manufacturing equipment, industrial robotics equipment, and measurement equipment, and whose functions do not directly relate to the protection of human life and property.
- Medical equipment (GHTF Class C) *Except for implant/surgery/auto injector: Products that can be used for medical equipment of Class C of the international classification class GHTF and whose malfunction is considered to pose a relatively high risk to the human body.
- Medical equipment (GHTF Class A and B): Products that can be used for medical equipment regulated by Class A and Class B of the international classification class GHTF and whose functions do not directly relate to the protection of human life and property.
- Consumer equipment: Products that can be used in consumer equipment such as home appliances, audio/visual
 equipment, communication equipment, information equipment, office equipment, and household robotics, and whose
 functions are not directly related to the protection of human life and property.

1.2 Unsuitable application:

Applications listed in "Limitation of applications" in this reference specification.

WE DISCLAIM ANY LOSS AND DAMAGES ARISING FROM OR IN CONNECTION WITH THE PRODUCTS INCLUDING BUT NOT LIMITED TO THE CASE SUCH LOSS AND DAMAGES CAUSED BY THE UNEXPECTED ACCIDENT, IN EVENT THAT THE PRODUCT IS APPLIED FOR THE PURPOSE WHICH IS SPECIFIED ABOVE AS THE UNSUITABLE APPLICATION FOR THE PRODUCT.

2.Part Numbering

(ex)	LQ	H	43	С	N	2R7	М	3	3	L
	Product ID	Structure	Dimension	Applications	Category	Inductance	Tolerance	Features	Electrode	Packaging
			(L×W)	and						L:Taping
				Characteristic	s					

-40 to +85°C

3.Rating

Operating	Temperature Range	
<u> </u>		

Storage Temperature Range -40 to +85°C

Customer	MURATA	Ind	uctance	DC	Self	*Rated
Part Number			Tolerance (%)	Resistance (Ω max.)	Resonant Frequency (MHz min.)	Current (mA)
	LQH43CNR56M33L	0.56		0.023±30%	160	2950
	LQH43CNR82M33L	0.82		0.027±30%	130	2800
	LQH43CN1R0M33L LQH43CN1R5M33L LQH43CN1R8M33L	1.0		0.032±30%	110	2600
		1.5		0.036±30%	80	2450
		1.8	M:±20	0.042±30%	70	2300
	LQH43CN2R2M33L	2.2		0.047±30%	60	2100
	LQH43CN2R7M33L	2.7		0.053±30%	50	1800
	LQH43CN3R3M33L	3.3		0.076±30%	47	1650
	LQH43CN3R9M33L	3.9		0.082±30%	40	1600

*When applied Rated current to the Products, Inductance will be within $\pm 20\%$ of initial Inductance value.

When applied Rated current to the Products, temperature rise caused by self-generated heat shall be limited to 40°C max.

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SpecNo.JELF243A-0088J-01

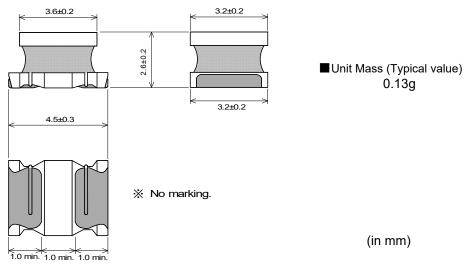
4. Testing Conditions

<Unless otherwise specified>

Temperature : Ordinary Temperature (15 to 35°C) Humidity : Ordinary Humidity (25 to 85 %(RH))

<In case of doubt> Temperature : 20 ± 2°C Humidity : 60 to 70 %(RH) Atmospheric Pressure : 86 to 106 kPa

5.Appearance and Dimensions



6.Electrical Performance

No.	Item	Specification	Test Method
6.1	Inductance	Meet chapter 3 ratings.	Measuring Equipment: KEYSIGHT 4192A or equivalent Measuring Frequency: 1MHz
6.2	DC Resistance	Meet chapter 3 ratings.	Measuring Equipment: Digital multi meter
6.3	Self Resonant Frequency(S.R.F)	Meet chapter 3 ratings.	Measuring Equipment: KEYSIGHT 4991A or equivalent

7.Mechanical Performance

No.	Item	Specification	Test Method
7.1	Shear Test	No significant mechanical damage or no sign of electrode peeling off shall be observed.	Substrate: Glass-epoxy substrate Applied Direction : Chip Coil Force: 20N Hold Duration: 5±1 s
7.2	Bending Test	No significant mechanical damage or no sign of electrode peeling off shall be observed.	Substrate: Glass-epoxy substrate $(100 \times 40 \times 1.6mm)$ Speed of Applying Force: 1mm / s Deflection: 2mm Hold Duration: 30 s Pressure jig (R340) F (R340) F Deflection (In mm)
7.3	Vibration	Appearance shall have no significant mechanical damage.	Oscillation Frequency: 10 to 55 to 10Hz for 1 minute Total Amplitude: 1.5mm Testing Time: A period of 2 hours in each of 3 mutually perpendicular directions. (Total 6 hours)

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Reference Only

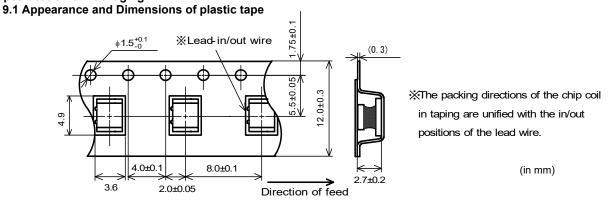
SpecNo.JELF243A-0088J-01

No.	Item	Specification	Test Method
7.4	Solderability	90% or more of the outer electrode shall be covered with new solder seamlessly.	Flux: Ethanol solution of rosin, 25(wt)% (Immersed for 5s to 10s) Solder: Sn-3.0Ag-0.5Cu Pre-Heating: 150±10°C / 60 to 90seconds Solder Temperature: 240±5°C Immersion Time: 3±1 s
7.5	Resistance to Soldering Heat	Appearance:No damage Inductance Change : within ± 5%	Flux: Ethanol solution of rosin, 25(wt)% (Immersed for 5s to 10s) Solder: Sn-3.0Ag-0.5Cu Pre-Heating: 150±10°C / 60 to 90seconds Solder Temperature: 270±5°C Immersion Time: 10±1 s Then measured after exposure in the room condition for 24±2 hours.

8.Environmental Performance (It shall be soldered on the substrate.)

No.	Item	Specification	Test Method
8.1	Heat Resistance	Appearance:No damage	Temperature: 85±2°C
		Inductance Change : within ±5%	Time: 1000h (+48 h, -0 h)
		-	Then measured after exposure in the room
			condition for 24±2 hours.
8.2	Cold Resistance		Temperature: -40±2°C
			Time: 1000h (+48 h, -0 h)
			Then measured after exposure in the room
			condition for 24±2 hours.
8.3	Humidity		Temperature: 40±2°C
			Humidity: 90 to 95%(RH)
			Time: 1000h (+48 h, -0 h)
			Then measured after exposure in the room
			condition for 24±2 hours.
8.4	Temperature		1 cycle:
	Cycle		step 1 : -40±2°C / 30±3 min
			step 2 : Ordinary temp. / 10 to 15 min
			step 3 : +85±2°C / 30±3 min
			step 4 : Ordinary temp. / 10 to 15 min
			Total of 10 cycles
			Then measured after exposure in the room
			condition for 24±2 hours.

9. Specification of Packaging



Dimension of the Cavity is measured at the bottom side.

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9.2 Specification of Taping

(1) Packing quantity (standard quantity)

- 500 pcs / reel
- (2) Packing Method

Products shall be packed in the each embossed cavity of plastic tape and sealed by cover tape.

(3) Sprocket hole

The sprocket holes are to the right as the tape is pulled toward the user.

(4) Spliced point

Plastic tape and Cover tape has no spliced point.

(5) Missing components number

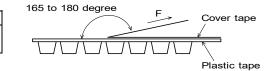
Missing components number within 0.025 % of the number per reel or 1 pc., whichever is greater, and are not continuous. The specified quantity per reel is kept.

9.3 Pull Strength

Embossed carrier tape	10N min.
Cover tape	5N min.

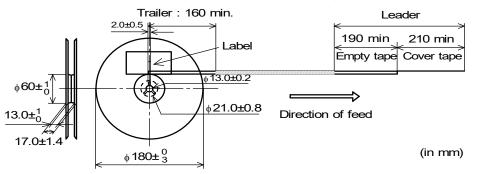
9.4 Peeling off force of cover tape

Speed of Peeling off	300mm/min
Peeling off force	0.2 to 0.7N (minimum value is typical)



9.5 Dimensions of Leader-tape, Trailer and Reel

There shall be leader-tape (cover tape) and trailer-tape (empty tape) as follows.



9.6 Marking for reel

Customer part number, MURATA part number, Inspection number(*1), RoHS Marking(*2), Quantity etc ···

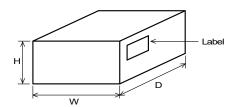
 *1) < Expression of Inspec 	tion No.>	$\frac{\Box \Box}{(1)} \underline{OOOO} \times $
(1) Factory Code	Time to diasit	(1) (2) (3)
(2) Date First digit Second digit		: Year / Last digit of year : Month / Jan. to Sep. \rightarrow 1 to 9, Oct. to Dec. \rightarrow O, N, D
(3) Serial No.	Third, Fourth digit	: Day

*2) « Expression of RoHS Marking » ROHS – \underline{Y} ($\underline{\Delta}$) (1) (2) (1) RoHS regulation conformity parts. (2) MURATA classification number

9.7 Marking for Outside package (corrugated paper box)

Customer name, Purchasing order number, Customer part number, MURATA part number, RoHS Marking(*2) ,Quantity, etc \cdots

9.8. Specification of Outer Case



Outer Ca	se Dimen (mm)	isions	Standard Reel Quantity in Outer Case (Reel)
W	D	Н	
186	186	93	5
		in a la humi	iaal litelawawala ay a wyawility af ay ayday

* Above Outer Case size is typical. It depends on a quantity of an order

MURATA MFG.CO., LTD

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10. **A**Caution

10.1 Limitation of applications

The products listed in the reference specification (hereinafter the product(s) is called as the "Product(s)") are designed and manufactured for applications specified in the reference specification (hereinafter called as the "Specific Application"). We shall not warrant anything in connection with the Products including fitness, performance, adequateness, safety, or quality, in the case of applications listed in from (1) to (11) written at the end of this precautions, which may generally require high performance, function, quality, management of production or safety. Therefore, the Product shall be applied in compliance with the specific application.

WE DISCLAIM ANY LOSS AND DAMAGES ARISING FROM OR IN CONNECTION WITH THE PRODUCTS INCLUDING BUT NOT LIMITED TO THE CASE SUCH LOSS AND DAMAGES CAUSED BY THE UNEXPECTED ACCIDENT, IN EVENT THAT (i) THE PRODUCT IS APPLIED FOR THE PURPOSE WHICH IS NOT SPECIFIED AS THE SPECIFIC APPLICATION FOR THE PRODUCT, AND/OR (ii) THE PRODUCT IS APPLIED FOR ANY FOLLOWING APPLICATION PURPOSES FROM (1) TO (11) (EXCEPT THAT SUCH APPLICATION PURPOSE IS UNAMBIGUOUSLY SPECIFIED AS SPECIFIC APPLICATION FOR THE PRODUCT IN OUR CATALOG SPECIFICATION FORMS, DATASHEETS, OR OTHER DOCUMENTS OFFICIALLY ISSUED BY US*).

- (1) Aircraft equipment
- (2) Aerospace equipment
- (3) Undersea equipment
- (4) Power plant control equipment
- (5) Medical equipment
- (6) Transportation equipment
- (7) Traffic control equipment
- (8) Disaster prevention/security equipment
- (9) Industrial data-processing equipment
- (10) Combustion/explosion control equipment

(11) Equipment with complexity and/or required reliability equivalent to the applications listed in the above. For exploring information of the Products which will be compatible with the particular purpose other than those specified in the reference specification, please contact our sales offices, distribution agents, or trading companies with which you make a deal, or via our web contact form.

Contact form: https://www.murata.com/contactform

* We may design and manufacture particular Products for applications listed in (1) to (11). Provided that, in such case we shall unambiguously specify such Specific Application in the reference specification without any exception. Therefore, any other documents and/or performances, whether exist or non-exist, shall not be deemed as the evidence to imply that we accept the applications listed in (1) to (11).

10.2 Corrosive gas

Please refrain from use since contact with environments with corrosive gases (sulfur gas [hydrogen sulfide, sulfur dioxide, etc.], chlorine, ammonia, etc.) or oils (cutting oil, silicone oil, etc.) that have come into contact with the previously stated corrosive gas environment will result in deterioration of product quality or an open from deterioration due to corrosion of product electrode, etc. We will not bear any responsibility for use under these environments.

11. Notice

This product is designed for solder mounting.

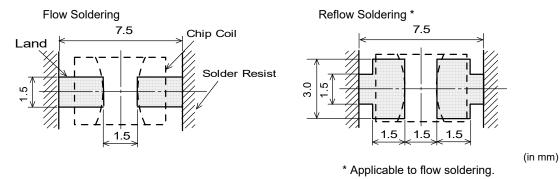
Please consult us in advance for applying other mounting method such as conductive adhesive.

11.1 Land pattern designing

Recommended land patterns for flow and reflow soldering are as follows:

These have been designed for Electric characteristics and solderability.

Please follow the recommended patterns. Otherwise, their performance which includes electrical performance or solderability may be affected, or result to "position shift" in soldering process.



Reference Only

11.2 Flux, Solder

1 1ux, 001001	
Flux	 Use rosin-based flux. Don't use highly acidic flux with halide content exceeding 0.2(wt)% (chlorine conversion value). Don't use water-soluble flux.
Solder	• Use Sn-3.0Ag-0.5Cu solder • Standard thickness of solder paste : 200 μ m to 300 μ m

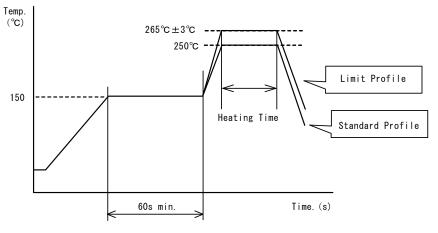
Other flux (except above) Please contact us for details, then use.

11.3 Flow soldering conditions / Reflow soldering conditions

- Pre-heating should be in such a way that the temperature difference between solder and product surface is limited to 150°C max. Cooling into solvent after soldering also should be in such a way that the temperature difference is limited to 100°C max.
- Insufficient pre-heating may cause cracks on the product, resulting in the deterioration of product quality. •Standard soldering profile and the limit soldering profile is as follows.
- The excessive limit soldering conditions may cause leaching of the electrode and / or resultingin the deterioration of product quality.

soldering profile

(1)Flow soldering profile

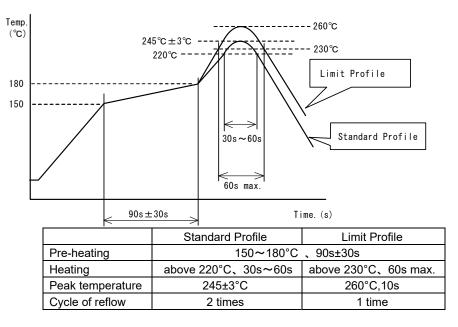


	Standard Profile	Limit Profile
Pre-heating	e-heating 150°C、60s min.	
Heating	250°C、4s∼6s	265°C±3°C、5s
Cycle of flow	2 times	1 time

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(2)Reflow soldering profile



11.4 Reworking with soldering iron.

The following conditions must be strictly followed when using a soldering iron.

Pre-heating	150°C,1 min	
Tip temperature	350°C max.	
Soldering iron output	80W max.	
Tip diameter	φ 3mm max.	
Soldering time	3(+1,-0)s	
Times	2 times	

Note : Do not directly touch the products with the tip of the soldering iron in order to prevent the crack on the products due to the thermal shock.

11.5 Solder Volume

- Solder shall be used not to be exceed the upper limits as shown below.
- Accordingly increasing the solder volume, the mechanical stress to Chip is also increased. Exceeding solder volume may cause the failure of mechanical or electrical performance.

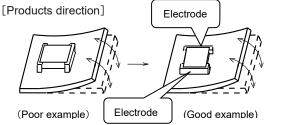


1/3T≦t≦T (T: Lower flange thickness)

11.6 Product's location

The following shall be considered when designing and laying out P.C.B.'s.

(1) P.C.B. shall be designed so that products are not subject to the mechanical stress due to warping the board.



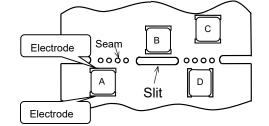
Products shall be located in the sideways direction to the mechanical stress.

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(2) Components location on P.C.B. separation.

It is effective to implement the following measures, to reduce stress in separating the board. It is best to implement all of the following three measures; however, implement as many measures as possible to reduce stress.

Contents of Measures	Stress Level
(1) Turn the mounting direction of the component parallel to the board separation surface.	A > D *1
(2) Add slits in the board separation part.	A > B
(3) Keep the mounting position of the component away from the board separation surface.	A > C



the perforation as with Hand Separation. If a Cutting Disc is used, stress will be diagonal to the PCB, therefore A > D is invalid.

*1 A > D is valid when stress is added vertically to

(3) Mounting Components Near Screw Holes When a component is mounted near a screw hole, it may be affected by the board deflection that occurs during the tightening of the screw. Mount the component in a position as far away from the screw holes as possible.

11.7 Cleaning Conditions

Products shall be cleaned on the following conditions.

- (1) Cleaning temperature shall be limited to 60°C max.(40°C max for IPA.)
- (2) Ultrasonic cleaning shall comply with the following conditions with avoiding the resonance phenomenon at the mounted products and P.C.B.
 - Power : 20 W /I max. Frequency : 28kHz to 40kHz Time : 5 minutes max.
- (3) Cleaner
 - 1. Alternative cleaner

·Isopropyl alcohol (IPA)

- 2. Aqueous agent
- ·PINE ALPHA ST-100S

(4) There shall be no residual flux and residual cleaner after cleaning.

- In the case of using aqueous agent, products shall be dried completely after rinse with de-ionized water in order to remove the cleaner.
- (5) Other cleaning

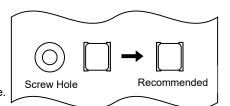
Please contact us.

11.8 Resin coating

The inductance value may change due to high cure-stress of resin to be used for coating/molding products. An open circuit issue may occur by mechanical stress caused by the resin, amount/cured shape of resin, or operating condition etc. Some resin contains some impurities or chloride possible to generate chlorine by hydrolysis under some operating condition may cause corrosion of wire of coil, leading to open circuit. So, please pay your careful attention when you select resin in case of coating/molding the products with the resin. Prior to use the coating resin, please make sure no reliability issue is observed by evaluating products mounted on your board.

11.9 Caution for use

- Sharp material such as a pair of tweezers or other material such as bristles of cleaning brush, shall not be touched to the winding portion to prevent the breaking of wire.
- Mechanical shock should not be applied to the products mounted on the board to prevent the breaking of the core.



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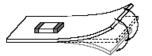
11.10 Handling of a substrate

After mounting products on a substrate, do not apply any stress to the product caused by bending or twisting to the substrate when cropping the substrate, inserting and removing a connector from the substrate or tightening screw to the substrate.

Excessive mechanical stress may cause cracking in the product.

Bending

Twisting





11.11 Storage and Handling Requirements

- (1) Storage period
 - Use the products within 12 months after delivered.
 - Solderability should be checked if this period is exceeded.
- (2) Storage conditions
 - Products should be stored in the warehouse on the following conditions.
 - Temperature : -10 ~ 40°C

Humidity : 15 to 85% relative humidity No rapid change on temperature and humidity

The electrode of the products is coated with solder. Don't keep products in corrosive gases such as sulfur, chlorine gas or acid, or it may cause oxidization of electrode, resulting in poor solderability.

- Products should not be stored on bulk packaging condition to prevent the chipping of the core and the breaking of winding wire caused by the collision between the products.
- Products should be stored on the palette for the prevention of the influence from humidity, dust and so on.
- Products should be stored in the warehouse without heat shock, vibration, direct sunlight and so on.
- (3) Handling Condition

Care should be taken when transporting or handling product to avoid excessive vibration or mechanical shock.

12. \land Note

- (1) Please make sure that your product has been evaluated in view of your specifications with our product being mounted to your product.
- (2) You are requested not to use our product deviating from the reference specifications.
- (3) The contents of this reference specification are subject to change without advance notice. Please approve our product specifications or transact the approval sheet for product specifications before ordering.



OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we striciy control the quality of products and services. Welcome your RFQ to Email: Info@DiGi-Electronics.com

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