

LQH2HPZ2R2MGRL Datasheet

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| DiGi Electronics Part Number | LQH2HPZ2R2MGRL-DG |
|------------------------------|---|
| Manufacturer | Murata Electronics |
| Manufacturer Product Number | LQH2HPZ2R2MGRL |
| Description | FIXED IND 2.2UH 1.47A 160.8 MOHM |
| Detailed Description | 2.2 μH Shielded Drum Core, Wirewound Inductor 1. 47 A 160.8mOhm Max 1008 (2520 Metric) |

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Purchase and inquiry

| Manufacturer Product Number: | Manufacturer: |
|------------------------------|---------------------------------------|
| LQH2HPZ2R2MGRL | Murata Electronics |
| Series: | Product Status: |
| LQH2 | Discontinued at Digi-Key |
| Туре: | Material - Core: |
| Drum Core, Wirewound | Ferrite |
| Inductance: | Tolerance: |
| 2.2 μH | ±20% |
| Current Rating (Amps): | Current - Saturation (Isat): |
| 1.47 A | 1.55A |
| Shielding: | DC Resistance (DCR): |
| Shielded | 160.8mOhm Max |
| Frequency - Self Resonant: | Ratings: |
| 80MHz | AEC-Q200 |
| Operating Temperature: | Inductance Frequency - Test: |
| -40°C ~ 105°C | 1 MHz |
| Mounting Type: | Package / Case: |
| Surface Mount | 1008 (2520 Metric) |
| Supplier Device Package: | Size / Dimension: |
| 1008 (2520 Metric) | 0.098" L x 0.079" W (2.50mm x 2.00mm) |
| Height - Seated (Max): | Base Product Number: |
| 0.039" (1.00mm) | LQH2HPZ |
| | |

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

CHIP COIL (CHIP INDUCTOR) for Automotive infotainment/comfort equipment LQH2HPZ - GR Murata Standard Reference Specification [AEC-Q200]

1. Scope

This reference specification applies to chip coils (chip inductors) LQH2HPZ_GR series based on AEC-Q200.

1.1 Specific applications:

- Automotive infotainment/comfort equipment: Products that can be used for automotive equipment such as car navigation systems and car audio systems that do not directly relate to human life and whose structure, equipment, and performance are not specifically required by law to meet technical standards for safety assurance or environmental protection.
- 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.

2. Part Numbering

| (Ex.) | | | | | | | | | |
|------------|-----------|----------------------|--------------------------------|----------|------------|-----------|------------------|-------|---|
| LQ | Н | 2H | Р | Z | 1R0 | М | G | R | L |
| Product ID | Structure | Dimension (L × W) | Application and characteristic | Category | Inductance | Tolerance | Dimension (T) | Other | Packaging L: ø180 taping *B: bulk |

*B: Bulk packing is also available.

3. Part Number and Rating

| Operating temperature range | (ambient temperature not including self-temperature rise) | -40°C to +105°C |
|-----------------------------|---|-----------------|
| | (product temperature including self-temperature rise) | -40°C to +125°C |
| Storage temperature range | | -40°C to +125°C |

| | | las also | | | | Rated current (mA)*3 | | | | | |
|-------------------------|-----------------------|------------------|------------------|-------------------------|-------------------------------------|--|------|--------------------------------|------|---------------------------------|---------------------|
| | | Inductance | | | Self- | Deced en | | Based | | | |
| Customer Part number | Murata Part number | Nominal value | Tolerance (%) | DC resistance (Ω) | resonant frequency (MHz min.) | Based on inductance change ^{*1} | | Ambient temperature 85°C | | Ambient temperature 105°C | ESD 5 A: 8 kV |
| | | (µH) | (70) | | | Max. | Тур. | Max. | Тур. | Max. | |
| | LQH2HPZR47MGRL | 0.47 | ±20 | 0.045±20% | 120 | 2900 | 3300 | 2520 | 2620 | 1470 | 5A |
| | LQH2HPZR68MGRL | 0.68 | ±20 | 0.055±20% | 110 | 2430 | 2950 | 2330 | 2450 | 1350 | 5A |
| | LQH2HPZ1R0MGRL | 1.0 | ±20 | 0.068±20% | 100 | 2130 | 2340 | 2100 | 2300 | 1200 | 5A |
| | LQH2HPZ1R5MGRL | 1.5 | ±20 | 0.087±20% | 90 | 1700 | 1890 | 1850 | 1900 | 1110 | 5A |
| | LQH2HPZ2R2MGRL | 2.2 | ±20 | 0.134±20% | 80 | 1550 | 1660 | 1470 | 1600 | 850 | 5A |
| | LQH2HPZ3R3MGRL | 3.3 | ±20 | 0.225±20% | 70 | 1230 | 1420 | 1100 | 1200 | 660 | 5A |
| | LQH2HPZ4R7MGRL | 4.7 | ±20 | 0.300±20% | 50 | 1090 | 1160 | 1000 | 1050 | 570 | 5A |
| | LQH2HPZ6R8MGRL | 6.8 | ±20 | 0.395±20% | 40 | 830 | 960 | 860 | 900 | 490 | 5A |
| | LQH2HPZ100MGRL | 10 | ±20 | 0.560±20% | 30 | 700 | 800 | 710 | 750 | 430 | 5A |
| | LQH2HPZ150MGRL | 15 | ±20 | 0.925±20% | 20 | 570 | 640 | 560 | 580 | 310 | 5A |
| | LQH2HPZ220MGRL | 22 | ±20 | 1.360±20% | 15 | 460 | 540 | 430 | 470 | 250 | 5A |

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Reference Only

Spec No.: JELF243A 9128H-01

| | | الم مار | atanaa | | | | Rat | ed curre | ent (mA) | *3 | | | | | | |
|-------------------------|-----------------------|-------------------|--------|-----------|-------|---------------|-----------|----------|-------------------------|-------------------------------------|--------------------------------|--|-------------|--|---------------------------------|-----|
| | | Indu | ctance | | Self- | Deer | | Based | on temp | erature rise ^{*2} | | | | | | |
| Customer Part number | Murata Part number | Nominal value (%) | | I olerand | | Value I olera | Interance | | DC resistance (Ω) | resonant frequency (MHz min.) | sonant inducta quency chang | | nce Ambient | | Ambient temperature 105°C | ESD |
| | | (µH) | (70) | | | Max. | Тур. | Max. | Тур. | Max. | | | | | | |

*1 When rated current is applied to the products, inductance will be within ±30% of initial inductance value range. *2 When rated current is applied to the products, temperature rise caused by self-generated heat shall be limited to 40°C max

(ambient temperature 85°C max).

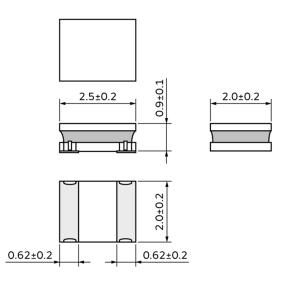
When rated current is applied to the products, temperature rise caused by self-generated heat shall be limited to 20°C max (ambient temperature 85°C to 105°C).

*3 Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

4. Testing Conditions

| Unless otherwise specified | Temperature: ordinary temperature (15°C to 35°C) Humidity: ordinary humidity [25% to 85% (RH)] |
|----------------------------|---|
| | Temperature: 20°C±2°C Humidity: 60% to 70% (RH) Atmospheric pressure: 86 kPa to 106 kPa |

5. Appearance and Dimensions



(in mm)

Unit mass (typical value): 0.019 g

6. Marking

No marking.

7. Electrical Performance

| No. | Item | Specification | Test method |
|-----|----------------------------|-------------------------|--|
| 7.1 | Inductance | Meet chapter 3 ratings. | Measuring equipment: Keysight 4192A or the equivalent Measuring frequency: 1 MHz |
| 7.2 | DC resistance | Meet chapter 3 ratings. | Measuring equipment: digital multimeter |
| | Self-resonant frequency | Meet chapter 3 ratings. | Measuring equipment: Keysight E4991A or the equivalent |

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8. AEC-Q200 Requirement

| 2010] | 8.1 Performance [based on table 5 for magnetics (induct | ors/transformer) AEC-Q200 Rev. D issued June 1, |
|-------|---|---|
| | 2010] | |

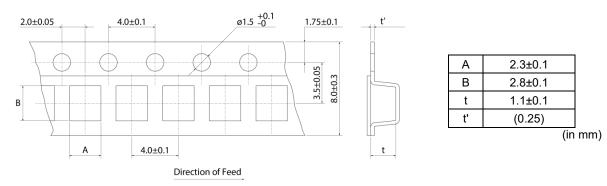
| .010] | | AEC-Q200 | | | | | | | |
|-------|---------------------------------|--|--|--|--|--|--|--|--|
| No. | Stress | Test method | Murata specification/deviation | | | | | | |
| 3 | High temperature exposure | 1000 h at 125°C Set for 24 h at room condition, then measured. | Meet table A after testing. Table A Appearance No damage Inductance change (at 1 MHz) Within ±10% DC resistance change Within ±10% | | | | | | |
| 4 | Temperature cycling | 1000 cycles -40°C to +105°C Set for 24 h at room condition, then measured. | Meet table A after testing. | | | | | | |
| 7 | Biased humidity | 1000 h at 85°C, 85% (RH). Unpowered. | Meet table A after testing. | | | | | | |
| 8 | Operational life | Apply rated current 85°C 1000 h Set for 24 h at room condition, then measured. | Meet table A after testing. | | | | | | |
| 9 | External visual | Visual inspection | No abnormalities | | | | | | |
| 10 | Physical dimension | Meet chapter 5, "Appearance and Dimensions". | No defects | | | | | | |
| 12 | Resistance to solvents | Per MIL-STD-202 Method 215 | Not applicable | | | | | | |
| 13 | Mechanical shock | Per MIL-STD-202 Method 213 Condition C: 100 g's/6 ms/half sine | Meet table A after testing. | | | | | | |
| 14 | Vibration | 5 g's for 20 min, 12 cycles each of 3 orientations Test from 10 Hz to 2000 Hz | Meet table A after testing. | | | | | | |
| 15 | Resistance to soldering heat | No-heating Solder temperature 260°C±5°C Immersion time 10 s | Pre-heating: 150°C to 180°C/90 s±30 s Meet table B after testing. Table B Appearance No damage Inductance change (at 1 MHz) Within ±20% DC resistance change Within ±10% | | | | | | |
| 17 | ESD | Per AEC-Q200-002 | Meet chapter 3 ratings. No defects | | | | | | |
| 18 | Solderbility | Per J-STD-002 | Method b: not applicable 95% of the terminations is to be soldered (except exposed wire). | | | | | | |
| 19 | Electrical characterization | Measured: inductance | No defects | | | | | | |
| 20 | Flammability | Per UL-94 | Not applicable | | | | | | |
| 21 | Board flex | Epoxy-PCB (1.6 mm) Deflection 2 mm (min.) 60 s minimum holding time | Holding time: 5 s Meet table A after testing. | | | | | | |
| 22 | Terminal strength | Per AEC-Q200-006 A force of 17.7 N for 60 s | Murata deviation request: 10 N for 60 s No defects | | | | | | |

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9. Specification of Packaging

9.1 Appearance and dimensions of tape (8 mm width/plastic tape)



* The dimensions of the cavity are measured at its bottom.

9.2 Taping specifications

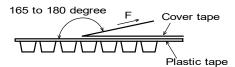
| Packing quantity (Standard quantity) | 3000 pcs/reel |
|--------------------------------------|--|
| Packing method | The products are placed in embossed cavities of a plastic tape and sealed by a cover tape. |
| Feed hole position | The feed holes on the plastic tape are on the right side when the cover tape is pulled toward the user. |
| Joint | The plastic tape and the cover tape are seamless. |
| Number of missing products | Number of missing products 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 Break down force of tape

| Break down force of plastic tape | 10 N min. |
|----------------------------------|-----------|
| Break down force of cover tape | 10 N min. |

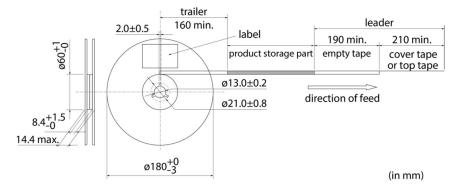
9.4 Peeling off force of cover tape

| Speed of peeling off | 300 mm/min |
|----------------------|--|
| Peeling off force | 0.2 N to 0.7 N (The lower limit is for typical value.) |



9.5 Dimensions of leader section, trailer section and reel

A vacant section is provided in the leader (start) section and trailer (end) section of the tape for the product. The leader section is further provided with an area consisting only of the cover tape (or top tape). (See the diagram below.)



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9.6 Marking for reel

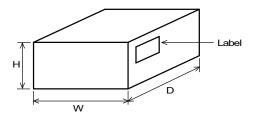
Customer part number, Murata part number, inspection number (*1), RoHS marking (*2), quantity, etc.

| *1 Expression of inspection No.: $\begin{array}{c c} & & & & \\ \hline \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\$ | (1) Factory code (2) Date First digit: year/last digit of year Second digit: month/Jan. to Sep.→1 to 9, Oct. to Dec.→O, N, D Third, Fourth digit: day (3) Serial No. | |
|--|---|--|
| *2 Expression of RoHS marking: ROHS- \underline{Y} $\underline{(\triangle)}$ (1) (2) | (1) RoHS regulation conformity(2) Murata classification number | |

9.7 Marking on outer box (corrugated box)

Customer name, purchasing order number, customer part number, Murata part number, RoHS marking (*2), quantity, etc.

9.8 Specification of outer box



| Dimens | | | Standard reel quantity |
|--------|----------------------------|----|------------------------|
| W | D | Н | in outer box (reel) |
| 186 | 186 | 93 | 5 |
| | outer box s y of an oro | 21 | cal. It depends on a |

10. **A**Caution

10.1 Restricted 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).



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10.2 Precautions on rating

Do not use the products in excess of their rated current. Doing so may cause the product to generate heat, resulting in short circuit between wires, wire breakage, or melted solder, which may cause dropping of parts.

10.3 Fail-safe

Be sure to provide an appropriate fail-safe function on your product to prevent a second damage that may be caused by the abnormal function or the failure of our product.

10.4 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. Precautions for Use

This product is for use only with reflow soldering. It is designed to be mounted by soldering. If you want to use other mounting method, for example, using a conductive adhesive, please consult us beforehand.

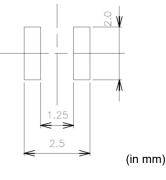
Also, if repeatedly subjected to temperature cycles or other thermal stress, due to the difference in the coefficient of thermal expansion with the mounting substrate, the solder (solder fillet part) in the mounting part may crack.

The occurrence of cracks due to thermal stress is affected by the size of the land where mounted, the solder volume, and the heat dissipation of the mounting substrate. Carefully design it when a large change in ambient temperature is assumed.

11.1 Land dimensions

The following diagram shows the recommended land dimensions for reflow soldering.

The land dimensions are designed in consideration of electrical characteristics and mountability. Use of other land dimensions may preclude achievement of performance. In some cases, it may result in poor solderability, including positional shift. If you use other land pattern, consider it adequately.



11.2 Flux and solder used

| Flux | Use a rosin-based flux. Do not use a highly acidic flux with a halide content exceeding 0.2(wt)% (chlorine conversion value). Do not use a water-soluble flux. |
|--------|--|
| Solder | Use Sn-3.0Ag-0.5Cu solder. Standard thickness of solder paste: 100 μm to 150 μm |

If you want to use a flux other than the above, please consult our technical department.

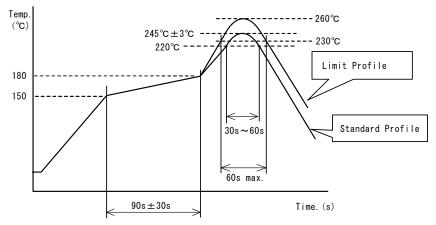


11.3 Soldering conditions (reflow)

• Pre-heating should be in such a way that the temperature difference between solder and product surface is limited to 100°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 resulting in the deterioration of product quality.



| | Standard profile | Limit profile |
|-------------------------|--------------------------|--------------------------|
| Pre-heating | 150°C to 180°C/90 s±30 s | 150°C to 180°C/90 s±30 s |
| Heating | Above 220°C/30 s to 60 s | Above 230°C/60 s max. |
| Peak temperature | 245°C±3°C | 260°C/10 s |
| Number of reflow cycles | 2 times | 2 times |

11.4 Reworking with soldering iron

The following requirements must be met to rework a soldered product using a soldering iron.

| Item | Requirement | |
|---|--------------------------------------|--|
| Pre-heating | 150°C/approx. 1 min | |
| Tip temperature of soldering iron | 350°C max. | |
| Power consumption of soldering iron | 80 W max. | |
| Tip diameter of soldering iron | ø3 mm max. | |
| Soldering time | 3 s (+1 s, -0 s) | |
| Number of reworking operations | 1 time max. | |
| * Avoid a direct contact of the tip of the solu | dering iron with the product. Such a | |

* Avoid a direct contact of the tip of the soldering iron with the product. Such a direction contact may cause cracks in the ceramic body due to thermal shock.

11.5 Solder volume

Solder shall be used not to increase the volume too much.

An increased solder volume increases mechanical stress on the product. Exceeding solder volume may cause the failure of mechanical or electrical performance.

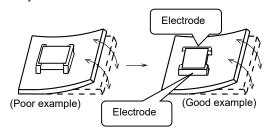


11.6 Product's location

The following shall be considered when designing and laying out PCBs.

(1) PCB shall be designed so that products are not subject to mechanical stress due to warping the board. [Products direction]

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

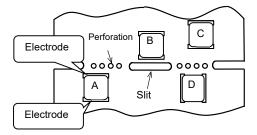


(2) Components location on PCB separation

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.

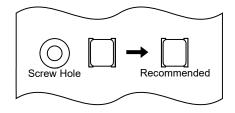
| Contents of measures | Stress level |
|---|--------------|
| (1) Turn the mounting direction of the component parallel to the board separation surface. | A > D*1 |
| (2) Add slits in the board separation part. | A > B |
| (3) Keep the mounting position of the component away from the board separation surface. | |
| *1 A > D is valid when stress is added vertically to the perforation as If a cutting disc is used, stress will be diagonal to the PCB, therefore | |



(3) Mounting components near screw holes

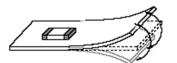
When a component is mounted near a screw hole, it may be affected by the board deflection that occurs during the tightening of the screw.

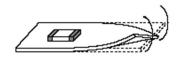
Mount the component in a position as far away from the screw holes as possible.



11.7 Handling of 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

MURATA MFG CO., LTD



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11.8 Cleaning

- The product shall be cleaned under the following conditions.
- (1) The cleaning temperature shall be 60°C max. If isopropyl alcohol (IPA) is used, the cleaning temperature shall be 40°C max.
- (2) Perform ultrasonic cleaning under the following conditions. Exercise caution to prevent resonance phenomenon in mounted products and the PCB.

| Item | Requirement |
|-----------|------------------|
| Power | 20 W/L max. |
| Time | 5 min max. |
| Frequency | 28 kHz to 40 kHz |

(3) Cleaner

Alcohol-based cleaner: IPA

Aqueous agent: PINE ALPHA ST-100S

(4) There shall be no residual flux or residual cleaner. When using aqueous agent, rinse the product with deionized water adequately and completely dry it so that no cleaner is left.

* For other cleaning, consult our technical department.

11.9 Storage and transportation

| Storage period | Use the product within 12 months after delivery. If you do not use the product for more than 12 months, check solderability before using it. |
|--------------------|--|
| Storage conditions | The products shall be stored in a room not subject to rapid changes in temperature and humidity. The recommended temperature range is -10°C to +40°C. The recommended relative humidity range is 15% to 85%. Keeping the product in corrosive gases, such as sulfur, chlorine gas or acid, oxidizes the electrode, resulting in poor solderability or corrosion of the coil wire of the product. Do not keep products in bulk packaging. Doing so may cause collision between the products or between the products and other products, resulting in core chipping or wire breakage. Do not place the products directly on the floor; they should be placed on a palette so that they are not affected by humidity or dust. Avoid keeping the products in a place exposed to direct sunlight, heat or vibration. |
| Transportation | Excessive vibration and impact reduces the reliability of the products. Exercise caution when handling the products. |

11.10 Resin coating

The inductance value may change due to high cure-stress of resin to be used for coating/molding products. A wire breakage 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 wire breakage.

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.

11.11 Handling of product

- 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.

11.12 Heat-resistant temperature of substrate and peripheral components

A rated current applied to the product (based on a rise in temperature) increases the product temperature up to 40°C. Pay attention to the heat-resistant temperature of the substrate and peripheral components.

12. ANote

- (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

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| DCI | DCL | DCL | |
|---|--|---|--|
| QUALITY MANAGEMENT SYSTEM CERTIFICATE | ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE | OCCUPATIONAL HEALTH & SAFETY MANAGEMENT SYSTEM CERTIFICATE | 의 제 또 관 별 제 중 CERTIFICATE OF INCORPORATION |
| DIGI ELECTRONICS HK LIMITED | DIGI ELECTRONICS HK LIMITED | DIGI ELECTRONICS HK LIMITED | A. A. B. A. B. W. Thereby satisfy fast |
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