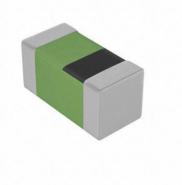


# LQG15HS1N6B02D Datasheet

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DiGi Electronics Part Number LQG15HS1N6B02D-DG

Manufacturer Murata Electronics

Manufacturer Product Number LQG15HS1N6B02D

Description FIXED IND 1.6NH 1A 70 MOHM SMD

Detailed Description 1.6 nH Unshielded Multilayer Inductor 1 A 70mOhm

Max 0402 (1005 Metric)



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.



## **Purchase and inquiry**

| Manufacturer Product Number:          | Manufacturer:                |
|---------------------------------------|------------------------------|
| LQG15HS1N6B02D                        | Murata Electronics           |
| Series:                               | Product Status:              |
| LQG15                                 | Active                       |
| Type:                                 | Material - Core:             |
| Multilayer                            | Air                          |
| Inductance:                           | Tolerance:                   |
| 1.6 nH                                | ±0.1nH                       |
| Current Rating (Amps):                | Shielding:                   |
| 1 A                                   | Unshielded                   |
| DC Resistance (DCR):                  | Q @ Freq:                    |
| 70mOhm Max                            |                              |
| Frequency - Self Resonant:            | Ratings:                     |
|                                       |                              |
| Operating Temperature:                | Inductance Frequency - Test: |
| -55°C ~ 125°C                         | 100 MHz                      |
| Features:                             | Mounting Type:               |
|                                       | Surface Mount                |
| Package / Case:                       | Supplier Device Package:     |
| 0402 (1005 Metric)                    | 0402                         |
| Size / Dimension:                     | Height - Seated (Max):       |
| 0.039" L x 0.020" W (1.00mm x 0.50mm) | 0.022" (0.55mm)              |
|                                       |                              |

## **Environmental & Export classification**

8504.50.8000

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

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LQG15HS1N6B02D Murata Electronics FIXED IND 16NH 1A 70 MOHM SMD

Reference Only

## CHIP COIL (CHIP INDUCTOR) for Consumer equipment & Industrial equipment LQG15HSDDDD02D REFERENCE SPECIFICATION

#### 1. Scope

This reference specification applies to chip coil (chip inductor) LQG15HS 02 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
- 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.)   |           |
|---|-----------|
| <u>LQ G 15 H S 1N0 S 0 2 </u>   | D         |
| Product Structure Dimension Application Category Inductance Tolerance Performance Electrode | Packaging |
| ID (L × W) and specification  | D: taping |
| characteristic  | *B: bulk  |

<sup>\*</sup>B: Bulk packing is also available.

#### 3. Part Number and Rating

| Operating temperature range | -55°C to +125°C |
|-----------------------------|-----------------|
| Storage temperature range   | -55°C to +125°C |

|                         |                       | Indu                     | Inductance |             | DC                     | Calf management                          |                       |
|-------------------------|-----------------------|--------------------------|------------|-------------|------------------------|--|-----------------------|
| Customer<br>Part number | Murata<br>Part number | Nominal<br>value<br>(nH) | Tolerance  | Q<br>(Min.) | resistance<br>(Ω max.) | Self-resonant<br>frequency<br>(MHz min.) | Rated current<br>(mA) |
|                         | LQG15HS1N0B02D        | 1.0                      | B: ±0.1 nH | 8           | 0.07                   | 10000                                    | 1000                  |
|                         | LQG15HS1N0C02D        | 1.0                      | C: ±0.2 nH | 8           | 0.07                   | 10000                                    | 1000                  |
|                         | LQG15HS1N0S02D        | 1.0                      | S: ±0.3 nH | 8           | 0.07                   | 10000                                    | 1000                  |
|                         | LQG15HS1N1B02D        | 1.1                      | B: ±0.1 nH | 8           | 0.07                   | 6000                                     | 1000                  |
|                         | LQG15HS1N1C02D        | 1.1                      | C: ±0.2 nH | 8           | 0.07                   | 6000                                     | 1000                  |
|                         | LQG15HS1N1S02D        | 1.1                      | S: ±0.3 nH | 8           | 0.07                   | 6000                                     | 1000                  |
|                         | LQG15HS1N2B02D        | 1.2                      | B: ±0.1 nH | 8           | 0.07                   | 6000                                     | 1000                  |
|                         | LQG15HS1N2C02D        | 1.2                      | C: ±0.2 nH | 8           | 0.07                   | 6000                                     | 1000                  |
|                         | LQG15HS1N2S02D        | 1.2                      | S: ±0.3 nH | 8           | 0.07                   | 6000                                     | 1000                  |
|                         | LQG15HS1N3B02D        | 1.3                      | B: ±0.1 nH | 8           | 0.07                   | 6000                                     | 1000                  |
|                         | LQG15HS1N3C02D        | 1.3                      | C: ±0.2 nH | 8           | 0.07                   | 6000                                     | 1000                  |
|                         | LQG15HS1N3S02D        | 1.3                      | S: ±0.3 nH | 8           | 0.07                   | 6000                                     | 1000                  |
|                         | LQG15HS1N5B02D        | 1.5                      | B: ±0.1 nH | 8           | 0.07                   | 6000                                     | 1000                  |
|                         | LQG15HS1N5C02D        | 1.5                      | C: ±0.2 nH | 8           | 0.07                   | 6000                                     | 1000                  |
|                         | LQG15HS1N5S02D        | 1.5                      | S: ±0.3 nH | 8           | 0.07                   | 6000                                     | 1000                  |

| Customer Part number   | 0.: JELF243B_001 | 100-01         |       |            |    | <u></u>    |               | P2/14                 |
|--|------------------|----------------|-------|------------|----|------------|---------------|-----------------------|
| Nominate   |                  |                | Indu  | ctance     | DC |            | Self-resonant |                       |
| LQG15HS1N6C02D   |                  |                | value | Tolerance  |    | resistance | frequency     | Rated current<br>(mA) |
| LQG15HS1N6S02D   |                  | LQG15HS1N6B02D | 1.6   | B: ±0.1 nH | 8  | 0.07       | 6000          | 1000                  |
| LQG15HS1N8B02D   |                  | LQG15HS1N6C02D | 1.6   | C: ±0.2 nH | 8  | 0.07       | 6000          | 1000                  |
| LQG15HS1N8C02D   |                  | LQG15HS1N6S02D | 1.6   | S: ±0.3 nH | 8  | 0.07       | 6000          | 1000                  |
| LQG15HS1N8S02D   |                  | LQG15HS1N8B02D | 1.8   | B: ±0.1 nH | 8  | 0.08       | 6000          | 950                   |
| LQG15HS2N0B02D   |                  | LQG15HS1N8C02D | 1.8   | C: ±0.2 nH | 8  | 0.08       | 6000          | 950                   |
| LQG15HS2N0502D   2.0   C: ±0.2 nH   8   0.09   6000   900     LQG15HS2N0502D   2.0   S: ±0.3 nH   8   0.09   6000   900     LQG15HS2N2502D   2.2   B: ±0.1 nH   8   0.09   6000   900     LQG15HS2N2502D   2.2   S: ±0.3 nH   8   0.09   6000   900     LQG15HS2N2502D   2.2   S: ±0.3 nH   8   0.09   6000   900     LQG15HS2N4502D   2.4   B: ±0.1 nH   8   0.11   6000   850     LQG15HS2N4502D   2.4   C: ±0.2 nH   8   0.11   6000   850     LQG15HS2N4502D   2.4   S: ±0.3 nH   8   0.11   6000   850     LQG15HS2N7502D   2.7   B: ±0.1 nH   8   0.11   6000   850     LQG15HS2N7502D   2.7   B: ±0.1 nH   8   0.12   6000   800     LQG15HS2N7502D   2.7   S: ±0.3 nH   8   0.12   6000   800     LQG15HS2N7502D   2.7   S: ±0.3 nH   8   0.12   6000   800     LQG15HS3N0502D   3.0   B: ±0.1 nH   8   0.125   6000   800     LQG15HS3N0502D   3.0   S: ±0.1 nH   8   0.125   6000   800     LQG15HS3N0502D   3.0   S: ±0.3 nH   8   0.125   6000   800     LQG15HS3N0502D   3.0   S: ±0.3 nH   8   0.125   6000   800     LQG15HS3N0502D   3.3   S: ±0.3 nH   8   0.125   6000   800     LQG15HS3N3502D   3.3   S: ±0.3 nH   8   0.125   6000   800     LQG15HS3N3502D   3.3   S: ±0.3 nH   8   0.125   6000   800     LQG15HS3N3502D   3.3   S: ±0.3 nH   8   0.125   6000   800     LQG15HS3N3502D   3.3   S: ±0.3 nH   8   0.125   6000   800     LQG15HS3N3502D   3.3   S: ±0.3 nH   8   0.125   6000   800     LQG15HS3N3502D   3.3   S: ±0.3 nH   8   0.125   6000   800     LQG15HS3N3502D   3.3   S: ±0.3 nH   8   0.144   6000   750     LQG15HS3N3502D   3.6   S: ±0.3 nH   8   0.144   6000   750     LQG15HS3N3502D   3.6   S: ±0.3 nH   8   0.144   6000   750     LQG15HS3N3502D   3.9   S: ±0.3 nH   8   0.144   6000   750     LQG15HS3N3502D   3.9   S: ±0.3 nH   8   0.144   6000   750     LQG15HS3N3502D   3.9   S: ±0.3 nH   8   0.144   6000   750     LQG15HS3N3502D   3.9   S: ±0.3 nH   8   0.144   6000   750     LQG15HS3N3502D   3.9   S: ±0.3 nH   8   0.144   6000   750     LQG15HS4N3502D   4.3   S: ±0.3 nH   8   0.144   6000   750     LQG15HS4N3502D   4.3   S: ±0.3 nH   8    |                  | LQG15HS1N8S02D | 1.8   | S: ±0.3 nH | 8  | 0.08       | 6000          | 950                   |
| LQG15HS2NQ502D   2.0   S:±0.3 nH   8   0.09   6000   900     LQG15HS2N2B02D   2.2   B:±0.1 nH   8   0.09   6000   900     LQG15HS2N2C02D   2.2   C:±0.2 nH   8   0.09   6000   900     LQG15HS2N4B02D   2.4   B:±0.1 nH   8   0.11   6000   850     LQG15HS2N4B02D   2.4   C:±0.2 nH   8   0.11   6000   850     LQG15HS2N4C02D   2.4   C:±0.2 nH   8   0.11   6000   850     LQG15HS2N4S02D   2.4   S:±0.3 nH   8   0.11   6000   850     LQG15HS2N4S02D   2.7   B:±0.1 nH   8   0.11   6000   850     LQG15HS2N7B02D   2.7   C:±0.2 nH   8   0.12   6000   800     LQG15HS2N7C02D   2.7   C:±0.2 nH   8   0.12   6000   800     LQG15HS2N7S02D   2.7   S:±0.3 nH   8   0.12   6000   800     LQG15HS2N7S02D   2.7   S:±0.3 nH   8   0.12   6000   800     LQG15HS3N0S02D   3.0   B:±0.1 nH   8   0.125   6000   800     LQG15HS3N0S02D   3.0   C:±0.2 nH   8   0.125   6000   800     LQG15HS3N0S02D   3.0   S:±0.3 nH   8   0.125   6000   800     LQG15HS3N3S02D   3.3   B:±0.1 nH   8   0.125   6000   800     LQG15HS3N6S02D   3.6   B:±0.1 nH   8   0.144   6000   750     LQG15HS3N6S02D   3.6   S:±0.3 nH   8   0.144   6000   750     LQG15HS3N6S02D   3.6   S:±0.3 nH   8   0.144   6000   750     LQG15HS3N9S02D   3.9   B:±0.1 nH   8   0.144   6000   750     LQG15HS3N9S02D   3.9   S:±0.3 nH   8   0.144   6000   750     LQG15HS4N3S02D   4.3   B:±0.1 nH   8   0.14   6000   750     LQG15HS4N7S02D   4.7   S:±0.3 nH   8   0.14   6000   750     LQG15HS4N7S02D   4.7   S:±0.3 nH   8   0.18   6000   600     LQG15HS5N1602 |                  | LQG15HS2N0B02D | 2.0   | B: ±0.1 nH | 8  | 0.09       | 6000          | 900                   |
| LQG15HS2N2602D   2.2   B.±0.1 nH   8   0.09   6000   900     LQG15HS2N2602D   2.2   C.±0.2 nH   8   0.09   6000   900     LQG15HS2N2602D   2.2   S.±0.3 nH   8   0.09   6000   900     LQG15HS2N4602D   2.4   E.±0.1 nH   8   0.11   6000   850     LQG15HS2N4602D   2.4   C.±0.2 nH   8   0.11   6000   850     LQG15HS2N4502D   2.4   S.±0.3 nH   8   0.11   6000   850     LQG15HS2N4502D   2.7   B.±0.1 nH   8   0.11   6000   850     LQG15HS2N7602D   2.7   C.±0.2 nH   8   0.12   6000   800     LQG15HS2N7602D   2.7   S.±0.3 nH   8   0.12   6000   800     LQG15HS2N7602D   2.7   S.±0.3 nH   8   0.12   6000   800     LQG15HS3N0602D   3.0   B.±0.1 nH   8   0.125   6000   800     LQG15HS3N0602D   3.0   S.±0.3 nH   8   0.125   6000   800     LQG15HS3N30602D   3.0   S.±0.3 nH   8   0.125   6000   800     LQG15HS3N3602D   3.3   B.±0.1 nH   8   0.125   6000   800     LQG15HS3N3602D   3.6   B.±0.1 nH   8   0.125   6000   800     LQG15HS3N6002D   3.6   B.±0.1 nH   8   0.14   6000   750     LQG15HS3N6002D   3.6   S.±0.3 nH   8   0.14   6000   750     LQG15HS3N9602D   3.9   S.±0.3 nH   8   0.14   6000   750     LQG15HS3N9602D   4.3   S.±0.3 nH   8   0.14   6000   750     LQG15HS3N1802D   4.3   S.±0.3 nH   8   0.14   6000   750     LQG15HS4N1802D   4.7  |                  | LQG15HS2N0C02D | 2.0   | C: ±0.2 nH | 8  | 0.09       | 6000          | 900                   |
| LQG15HS2N2C02D 2.2 C:±0.2 nH 8 0.09 6000 900  LQG15HS2N2S02D 2.2 S:±0.3 nH 8 0.09 6000 900  LQG15HS2N4B02D 2.4 B:±0.1 nH 8 0.11 6000 850  LQG15HS2N4S02D 2.4 C:±0.2 nH 8 0.11 6000 850  LQG15HS2N4S02D 2.4 S:±0.3 nH 8 0.11 6000 850  LQG15HS2N4S02D 2.4 S:±0.3 nH 8 0.11 6000 850  LQG15HS2N7B02D 2.7 B:±0.1 nH 8 0.12 6000 800  LQG15HS2N7S02D 2.7 C:±0.2 nH 8 0.12 6000 800  LQG15HS2N7S02D 2.7 S:±0.3 nH 8 0.12 6000 800  LQG15HS3N0B02D 3.0 B:±0.1 nH 8 0.12 6000 800  LQG15HS3N0B02D 3.0 C:±0.2 nH 8 0.125 6000 800  LQG15HS3N0S02D 3.0 S:±0.3 nH 8 0.125 6000 800  LQG15HS3N3C02D 3.0 S:±0.3 nH 8 0.125 6000 800  LQG15HS3N3C02D 3.3 B:±0.1 nH 8 0.125 6000 800  LQG15HS3N3C02D 3.3 S:±0.3 nH 8 0.125 6000 800  LQG15HS3N3C02D 3.3 S:±0.3 nH 8 0.125 6000 800  LQG15HS3N3C02D 3.3 C:±0.2 nH 8 0.125 6000 800  LQG15HS3NSC02D 3.6 S:±0.3 nH 8 0.125 6000 800  LQG15HS3NSC02D 3.6 B:±0.1 nH 8 0.125 6000 800  LQG15HS3NSC02D 3.6 B:±0.1 nH 8 0.14 6000 750  LQG15HS3NSC02D 3.6 S:±0.3 nH 8 0.14 6000 750  LQG15HS3NSC02D 3.9 C:±0.2 nH 8 0.14 6000 750  LQG15HS3NSC02D 3.9 C:±0.2 nH 8 0.14 6000 750  LQG15HS3NSC02D 3.9 S:±0.3 nH 8 0.14 6000 750  LQG15HS3NSC02D 4.3 S:±0.3 nH 8 0.14 6000 750  LQG15HS3NSC02D 4.3 B:±0.1 nH 8 0.14 6000 750  LQG15HS4NSC02D 4.3 B:±0.1 nH 8 0.14 6000 750  LQG15HS4NSC02D 4.7 B:±0.1 nH 8 0.16 6000 700  LQG15HS4NSC02D 4.7 B:±0.1 nH 8 0.18 5300 650  LQG15HS5N1B02D 5.1 B:±0.1 nH 8 0.18 5300 650  LQG15HS5N1B02D 5.1 B:±0.1 nH 8 0.18 5300 650  LQG15HS5N1B02D 5.1 S:±0.3 nH 8 0.18 5300 650  LQG15HSSNSC02D 5.6 B:±0.1 nH 8 0.18 4500 650  LQG15HSSNSC02D 5.6 B:±0.1 nH 8 0.18 4500 650  LQG15HSSNSC02D 5.6 C:±0.2 nH 8 0.18 4500 650  LQG15HSSNSC02D 5.6 C:±0.2 nH 8 0.18 4500 650  LQG15HSSNSC02D 6.2 C:±0.2 nH 8 0.18 0.20 4500 600  |                  | LQG15HS2N0S02D | 2.0   | S: ±0.3 nH | 8  | 0.09       | 6000          | 900                   |
| LQG15HS2N2S02D   2.2   S:±0.3 nH   8   0.09   6000   900     LQG15HS2N4B02D   2.4   B:±0.1 nH   8   0.11   6000   850     LQG15HS2N4S02D   2.4   C:±0.2 nH   8   0.11   6000   850     LQG15HS2N4S02D   2.4   S:±0.3 nH   8   0.11   6000   850     LQG15HS2N7B02D   2.7   S:±0.3 nH   8   0.11   6000   800     LQG15HS2N7D02D   2.7   C:±0.2 nH   8   0.12   6000   800     LQG15HS2N7S02D   2.7   S:±0.3 nH   8   0.12   6000   800     LQG15HS2N7S02D   2.7   S:±0.3 nH   8   0.12   6000   800     LQG15HS3N0B02D   3.0   B:±0.1 nH   8   0.125   6000   800     LQG15HS3N0C02D   3.0   C:±0.2 nH   8   0.125   6000   800     LQG15HS3N0S02D   3.0   S:±0.3 nH   8   0.125   6000   800     LQG15HS3N3B02D   3.3   B:±0.1 nH   8   0.125   6000   800     LQG15HS3N3B02D   3.3   S:±0.3 nH   8   0.125   6000   800     LQG15HS3NS02D   3.3   S:±0.3 nH   8   0.125   6000   800     LQG15HS3N6S02D   3.3   S:±0.3 nH   8   0.125   6000   800     LQG15HS3N6S02D   3.6   B:±0.1 nH   8   0.125   6000   800     LQG15HS3N6C02D   3.6   S:±0.3 nH   8   0.125   6000   800     LQG15HS3N6C02D   3.6   S:±0.3 nH   8   0.14   6000   750     LQG15HS3N9S02D   3.9   B:±0.1 nH   8   0.14   6000   750     LQG15HS3N9S02D   3.9   S:±0.3 nH   8   0.14   6000   750     LQG15HS4N3S02D   4.3   S:±0.3 nH   8   0.14   6000   750     LQG15HS4N3S02D   4.3   S:±0.3 nH   8   0.14   6000   750     LQG15HS4N7S02D   4.7   B:±0.1 nH   8   0.16   6000   750     LQG15HS4N7S02D   4.7   S:±0.3 nH   8   0.16   6000   750     LQG15HS5N1B02D   5.1   S:±0.3 nH   8   0.18   5300   650     LQG15HS5N1B02D   5.1    |                  | LQG15HS2N2B02D | 2.2   | B: ±0.1 nH | 8  | 0.09       | 6000          | 900                   |
| LQG15HS2N4B02D         2.4         B:±0.1 nH         8         0.11         6000         850           LQG15HS2N4C02D         2.4         C:±0.2 nH         8         0.11         6000         850           LQG15HS2N4S02D         2.4         S:±0.3 nH         8         0.11         6000         850           LQG15HS2N7B02D         2.7         B:±0.1 nH         8         0.12         6000         800           LQG15HS2N7C02D         2.7         S:±0.3 nH         8         0.12         6000         800           LQG15HS2N7S02D         2.7         S:±0.3 nH         8         0.12         6000         800           LQG15HS3N0B02D         3.0         B:±0.1 nH         8         0.125         6000         800           LQG15HS3N0S02D         3.0         C:±0.2 nH         8         0.125         6000         800           LQG15HS3N0S02D         3.0         S:±0.3 nH         8         0.125         6000         800           LQG15HS3N0S02D         3.3         C:±0.2 nH         8         0.125         6000         800           LQG15HS3N3B02D         3.3         S:±0.3 nH         8         0.125         6000         800           LQG1   |                  | LQG15HS2N2C02D | 2.2   | C: ±0.2 nH | 8  | 0.09       | 6000          | 900                   |
| LQG15HS2N4C02D 2.4 C: ±0.2 nH 8 0.11 6000 850  LQG15HS2N4S02D 2.4 S: ±0.3 nH 8 0.11 6000 850  LQG15HS2N7F02D 2.7 B: ±0.1 nH 8 0.12 6000 800  LQG15HS2N7F02D 2.7 C: ±0.2 nH 8 0.12 6000 800  LQG15HS2N7S02D 2.7 S: ±0.3 nH 8 0.12 6000 800  LQG15HS2N7S02D 3.0 B: ±0.1 nH 8 0.12 6000 800  LQG15HS3N0S02D 3.0 B: ±0.1 nH 8 0.125 6000 800  LQG15HS3N0S02D 3.0 C: ±0.2 nH 8 0.125 6000 800  LQG15HS3N0S02D 3.0 S: ±0.3 nH 8 0.125 6000 800  LQG15HS3N0S02D 3.0 S: ±0.3 nH 8 0.125 6000 800  LQG15HS3N3S02D 3.3 B: ±0.1 nH 8 0.125 6000 800  LQG15HS3N3S02D 3.3 C: ±0.2 nH 8 0.125 6000 800  LQG15HS3N3S02D 3.3 S: ±0.3 nH 8 0.125 6000 800  LQG15HS3N3S02D 3.3 S: ±0.3 nH 8 0.125 6000 800  LQG15HS3N3S02D 3.6 S: ±0.3 nH 8 0.125 6000 800  LQG15HS3N6S02D 3.6 S: ±0.1 nH 8 0.14 6000 750  LQG15HS3N6S02D 3.6 S: ±0.1 nH 8 0.14 6000 750  LQG15HS3N9S02D 3.9 B: ±0.1 nH 8 0.14 6000 750  LQG15HS3N9S02D 3.9 B: ±0.1 nH 8 0.14 6000 750  LQG15HS3N9S02D 3.9 S: ±0.3 nH 8 0.14 6000 750  LQG15HS3N9S02D 3.9 S: ±0.3 nH 8 0.14 6000 750  LQG15HS3N9S02D 3.9 S: ±0.3 nH 8 0.14 6000 750  LQG15HS3N9S02D 3.9 S: ±0.3 nH 8 0.14 6000 750  LQG15HS3N9S02D 3.9 S: ±0.3 nH 8 0.14 6000 750  LQG15HS3N9S02D 3.9 S: ±0.3 nH 8 0.14 6000 750  LQG15HS3N9S02D 3.9 S: ±0.3 nH 8 0.14 6000 750  LQG15HS3N9S02D 3.9 S: ±0.3 nH 8 0.14 6000 750  LQG15HS4N3N9C02D 4.3 S: ±0.3 nH 8 0.14 6000 750  LQG15HS4N3N9C02D 4.3 S: ±0.3 nH 8 0.14 6000 750  LQG15HS4N7S02D 4.7 S: ±0.3 nH 8 0.16 6000 700  LQG15HS4N7S02D 4.7 S: ±0.3 nH 8 0.16 6000 700  LQG15HS4N7S02D 4.7 S: ±0.3 nH 8 0.18 5300 650  LQG15HS5N1C02D 5.1 S: ±0.3 nH 8 0.18 5300 650  LQG15HS5N1C02D 5.1 S: ±0.3 nH 8 0.18 5300 650  LQG15HS5N6C02D 5.6 S: ±0.3 nH 8 0.18 4500 650  LQG15HS5N6C02D 5.6 S: ±0.3 nH 8 0.18 4500 650  LQG15HS5N6C02D 5.6 S: ±0.3 nH 8 0.18 4500 650  LQG15HS5N6C02D 5.6 S: ±0.3 nH 8 0.18 4500 650  LQG15HS5N6C02D 5.6 S: ±0.3 nH 8 0.18 4500 650  LQG15HSSN6C02D 5.6 S: ±0.3 nH 8 0.18 4500 650  LQG15HSSN6C02D 5.6 S: ±0.2 nH 8 0.18 4500 650  LQG15HSSN6C02D 5.6 S: ±0.3 nH 8 0.18 4500 650  LQG15HSSN6C02D 5.6 S: ±0.3 nH 8 0.18 4500 650             |                  | LQG15HS2N2S02D | 2.2   | S: ±0.3 nH | 8  | 0.09       | 6000          | 900                   |
| LQG15HS2N4S02D         2.4         S: ±0.3 nH         8         0.11         6000         850           LQG15HS2N7B02D         2.7         B: ±0.1 nH         8         0.12         6000         800           LQG15HS2N7F02D         2.7         C: ±0.2 nH         8         0.12         6000         800           LQG15HS3N0B02D         3.0         B: ±0.1 nH         8         0.12         6000         800           LQG15HS3N0C02D         3.0         B: ±0.1 nH         8         0.125         6000         800           LQG15HS3N0S02D         3.0         C: ±0.2 nH         8         0.125         6000         800           LQG15HS3N0S02D         3.0         S: ±0.3 nH         8         0.125         6000         800           LQG15HS3N3S02D         3.3         C: ±0.2 nH         8         0.125         6000         800           LQG15HS3N3S02D         3.3         C: ±0.2 nH         8         0.125         6000         800           LQG15HS3N3B02D         3.6         B: ±0.1 nH         8         0.125         6000         800           LQG15HS3N3B02D         3.6         C: ±0.2 nH         8         0.14         6000         750  |                  | LQG15HS2N4B02D | 2.4   | B: ±0.1 nH | 8  | 0.11       | 6000          | 850                   |
| LQG15HS2N7B02D         2.7         B: ±0.1 nH         8         0.12         6000         800           LQG15HS2N7C02D         2.7         C: ±0.2 nH         8         0.12         6000         800           LQG15HS2N7F02D         2.7         S: ±0.3 nH         8         0.12         6000         800           LQG15HS3N0B02D         3.0         B: ±0.1 nH         8         0.125         6000         800           LQG15HS3N0B02D         3.0         C: ±0.2 nH         8         0.125         6000         800           LQG15HS3N0B02D         3.0         S: ±0.3 nH         8         0.125         6000         800           LQG15HS3N3B02D         3.3         B: ±0.1 nH         8         0.125         6000         800           LQG15HS3N3B02D         3.3         C: ±0.2 nH         8         0.125         6000         800           LQG15HS3N3S02D         3.3         S: ±0.3 nH         8         0.125         6000         800           LQG15HS3N3S02D         3.6         B: ±0.1 nH         8         0.14         6000         750           LQG15HS3N9S02D         3.6         C: ±0.2 nH         8         0.14         6000         750  |                  | LQG15HS2N4C02D | 2.4   | C: ±0.2 nH | 8  | 0.11       | 6000          | 850                   |
| LQG15HS2N7C02D         2.7         C: ±0.2 nH         8         0.12         6000         800           LQG15HS2N7S02D         2.7         S: ±0.3 nH         8         0.12         6000         800           LQG15HS3N0B02D         3.0         B: ±0.1 nH         8         0.125         6000         800           LQG15HS3N0C02D         3.0         C: ±0.2 nH         8         0.125         6000         800           LQG15HS3N0S02D         3.0         S: ±0.3 nH         8         0.125         6000         800           LQG15HS3N3S02D         3.3         B: ±0.1 nH         8         0.125         6000         800           LQG15HS3N3C02D         3.3         C: ±0.2 nH         8         0.125         6000         800           LQG15HS3N3S02D         3.3         S: ±0.3 nH         8         0.125         6000         800           LQG15HS3N6S02D         3.6         B: ±0.1 nH         8         0.14         6000         750           LQG15HS3N6S02D         3.6         S: ±0.2 nH         8         0.14         6000         750           LQG15HS3N9602D         3.9         B: ±0.1 nH         8         0.14         6000         750  |                  | LQG15HS2N4S02D | 2.4   | S: ±0.3 nH | 8  | 0.11       | 6000          | 850                   |
| LQG15HS2N7S02D         2.7         S: ±0.3 nH         8         0.12         6000         800           LQG15HS3N0B02D         3.0         B: ±0.1 nH         8         0.125         6000         800           LQG15HS3N0C02D         3.0         C: ±0.2 nH         8         0.125         6000         800           LQG15HS3N0S02D         3.0         S: ±0.3 nH         8         0.125         6000         800           LQG15HS3N3B02D         3.3         B: ±0.1 nH         8         0.125         6000         800           LQG15HS3N3B02D         3.3         C: ±0.2 nH         8         0.125         6000         800           LQG15HS3N3S02D         3.3         S: ±0.3 nH         8         0.125         6000         800           LQG15HS3N8B02D         3.6         B: ±0.1 nH         8         0.14         6000         750           LQG15HS3N6B02D         3.6         S: ±0.3 nH         8         0.14         6000         750           LQG15HS3N9B02D         3.9         B: ±0.1 nH         8         0.14         6000         750           LQG15HS3N9B02D         3.9         S: ±0.2 nH         8         0.14         6000         750  |                  | LQG15HS2N7B02D | 2.7   | B: ±0.1 nH | 8  | 0.12       | 6000          | 800                   |
| LQG15HS3N0B02D         3.0         B: ±0.1 nH         8         0.125         6000         800           LQG15HS3N0C02D         3.0         C: ±0.2 nH         8         0.125         6000         800           LQG15HS3N0S02D         3.0         S: ±0.3 nH         8         0.125         6000         800           LQG15HS3N3B02D         3.3         B: ±0.1 nH         8         0.125         6000         800           LQG15HS3N3S02D         3.3         C: ±0.2 nH         8         0.125         6000         800           LQG15HS3N3S02D         3.3         S: ±0.3 nH         8         0.125         6000         800           LQG15HS3N8G02D         3.6         B: ±0.1 nH         8         0.14         6000         750           LQG15HS3N6G02D         3.6         C: ±0.2 nH         8         0.14         6000         750           LQG15HS3N8G02D         3.6         S: ±0.3 nH         8         0.14         6000         750           LQG15HS3N9B02D         3.9         B: ±0.1 nH         8         0.14         6000         750           LQG15HS3N9S02D         3.9         S: ±0.3 nH         8         0.14         6000         750  |                  | LQG15HS2N7C02D | 2.7   | C: ±0.2 nH | 8  | 0.12       | 6000          | 800                   |
| LQG15HS3N0C02D         3.0         C: ±0.2 nH         8         0.125         6000         800           LQG15HS3N0S02D         3.0         S: ±0.3 nH         8         0.125         6000         800           LQG15HS3N3B02D         3.3         B: ±0.1 nH         8         0.125         6000         800           LQG15HS3N3C02D         3.3         C: ±0.2 nH         8         0.125         6000         800           LQG15HS3N3B02D         3.3         S: ±0.3 nH         8         0.125         6000         800           LQG15HS3N6B02D         3.6         B: ±0.1 nH         8         0.14         6000         750           LQG15HS3N6B02D         3.6         S: ±0.3 nH         8         0.14         6000         750           LQG15HS3N9B02D         3.6         S: ±0.3 nH         8         0.14         6000         750           LQG15HS3N9B02D         3.9         B: ±0.1 nH         8         0.14         6000         750           LQG15HS3N9S02D         3.9         S: ±0.3 nH         8         0.14         6000         750           LQG15HS4N3B02D         4.3         B: ±0.1 nH         8         0.14         6000         750   |                  | LQG15HS2N7S02D | 2.7   | S: ±0.3 nH | 8  | 0.12       | 6000          | 800                   |
| LQG15HS3NOS02D         3.0         S: ±0.3 nH         8         0.125         6000         800           LQG15HS3N3B02D         3.3         B: ±0.1 nH         8         0.125         6000         800           LQG15HS3N3C02D         3.3         C: ±0.2 nH         8         0.125         6000         800           LQG15HS3N3S02D         3.3         S: ±0.3 nH         8         0.125         6000         800           LQG15HS3N6B02D         3.6         B: ±0.1 nH         8         0.14         6000         750           LQG15HS3N6C02D         3.6         C: ±0.2 nH         8         0.14         6000         750           LQG15HS3N6S02D         3.6         S: ±0.3 nH         8         0.14         6000         750           LQG15HS3N9B02D         3.9         B: ±0.1 nH         8         0.14         6000         750           LQG15HS3N9S02D         3.9         S: ±0.3 nH         8         0.14         6000         750           LQG15HS4N3B02D         4.3         B: ±0.1 nH         8         0.14         6000         750           LQG15HS4N3B02D         4.3         B: ±0.1 nH         8         0.14         6000         750  |                  | LQG15HS3N0B02D | 3.0   | B: ±0.1 nH | 8  | 0.125      | 6000          | 800                   |
| LQG15HS3N3B02D         3.3         B: ±0.1 nH         8         0.125         6000         800           LQG15HS3N3C02D         3.3         C: ±0.2 nH         8         0.125         6000         800           LQG15HS3N3S02D         3.3         S: ±0.3 nH         8         0.125         6000         800           LQG15HS3N6B02D         3.6         B: ±0.1 nH         8         0.14         6000         750           LQG15HS3N6C02D         3.6         C: ±0.2 nH         8         0.14         6000         750           LQG15HS3N6S02D         3.6         S: ±0.3 nH         8         0.14         6000         750           LQG15HS3N9B02D         3.9         B: ±0.1 nH         8         0.14         6000         750           LQG15HS3N9C02D         3.9         C: ±0.2 nH         8         0.14         6000         750           LQG15HS3N9S02D         3.9         S: ±0.3 nH         8         0.14         6000         750           LQG15HS4N3B02D         4.3         B: ±0.1 nH         8         0.14         6000         750           LQG15HS4N3S02D         4.3         C: ±0.2 nH         8         0.14         6000         750   |                  | LQG15HS3N0C02D | 3.0   | C: ±0.2 nH | 8  | 0.125      | 6000          | 800                   |
| LQG15HS3N3C02D         3.3         C: ±0.2 nH         8         0.125         6000         800           LQG15HS3N3S02D         3.3         S: ±0.3 nH         8         0.125         6000         800           LQG15HS3N6B02D         3.6         B: ±0.1 nH         8         0.14         6000         750           LQG15HS3N6C02D         3.6         C: ±0.2 nH         8         0.14         6000         750           LQG15HS3N9B02D         3.6         S: ±0.3 nH         8         0.14         6000         750           LQG15HS3N9B02D         3.9         B: ±0.1 nH         8         0.14         6000         750           LQG15HS3N9S02D         3.9         C: ±0.2 nH         8         0.14         6000         750           LQG15HS4N3B02D         4.3         B: ±0.1 nH         8         0.14         6000         750           LQG15HS4N3B02D         4.3         B: ±0.1 nH         8         0.14         6000         750           LQG15HS4N3C02D         4.3         S: ±0.2 nH         8         0.14         6000         750           LQG15HS4N3C02D         4.7         B: ±0.1 nH         8         0.14         6000         750           <  |                  | LQG15HS3N0S02D | 3.0   | S: ±0.3 nH | 8  | 0.125      | 6000          | 800                   |
| LQG15HS3N3S02D         3.3         S: ±0.3 nH         8         0.125         6000         800           LQG15HS3N6B02D         3.6         B: ±0.1 nH         8         0.14         6000         750           LQG15HS3N6C02D         3.6         C: ±0.2 nH         8         0.14         6000         750           LQG15HS3N6S02D         3.6         S: ±0.3 nH         8         0.14         6000         750           LQG15HS3N9B02D         3.9         B: ±0.1 nH         8         0.14         6000         750           LQG15HS3N9S02D         3.9         C: ±0.2 nH         8         0.14         6000         750           LQG15HS4N3S02D         3.9         S: ±0.3 nH         8         0.14         6000         750           LQG15HS4N3B02D         4.3         B: ±0.1 nH         8         0.14         6000         750           LQG15HS4N3C02D         4.3         B: ±0.1 nH         8         0.14         6000         750           LQG15HS4N3S02D         4.3         S: ±0.3 nH         8         0.14         6000         750           LQG15HS4N7S02D         4.7         B: ±0.1 nH         8         0.16         6000         700 <t< td=""><td></td><td>LQG15HS3N3B02D</td><td>3.3</td><td>B: ±0.1 nH</td><td>8</td><td>0.125</td><td>6000</td><td>800</td></t<>   |                  | LQG15HS3N3B02D | 3.3   | B: ±0.1 nH | 8  | 0.125      | 6000          | 800                   |
| LQG15HS3N6B02D         3.6         B: ±0.1 nH         8         0.14         6000         750           LQG15HS3N6C02D         3.6         C: ±0.2 nH         8         0.14         6000         750           LQG15HS3N6S02D         3.6         S: ±0.3 nH         8         0.14         6000         750           LQG15HS3N9B02D         3.9         B: ±0.1 nH         8         0.14         6000         750           LQG15HS3N9S02D         3.9         C: ±0.2 nH         8         0.14         6000         750           LQG15HS4N3B02D         3.9         S: ±0.3 nH         8         0.14         6000         750           LQG15HS4N3B02D         4.3         B: ±0.1 nH         8         0.14         6000         750           LQG15HS4N3B02D         4.3         B: ±0.1 nH         8         0.14         6000         750           LQG15HS4N3B02D         4.3         S: ±0.3 nH         8         0.14         6000         750           LQG15HS4N7B02D         4.7         B: ±0.1 nH         8         0.16         6000         700           LQG15HS4N7C02D         4.7         C: ±0.2 nH         8         0.16         6000         700 <td< td=""><td></td><td>LQG15HS3N3C02D</td><td>3.3</td><td>C: ±0.2 nH</td><td>8</td><td>0.125</td><td>6000</td><td>800</td></td<>  |                  | LQG15HS3N3C02D | 3.3   | C: ±0.2 nH | 8  | 0.125      | 6000          | 800                   |
| LQG15HS3N6C02D         3.6         C: ±0.2 nH         8         0.14         6000         750           LQG15HS3N6S02D         3.6         S: ±0.3 nH         8         0.14         6000         750           LQG15HS3N9B02D         3.9         B: ±0.1 nH         8         0.14         6000         750           LQG15HS3N9S02D         3.9         C: ±0.2 nH         8         0.14         6000         750           LQG15HS3N9S02D         3.9         S: ±0.3 nH         8         0.14         6000         750           LQG15HS4N3B02D         4.3         B: ±0.1 nH         8         0.14         6000         750           LQG15HS4N3S02D         4.3         C: ±0.2 nH         8         0.14         6000         750           LQG15HS4N3S02D         4.3         S: ±0.3 nH         8         0.14         6000         750           LQG15HS4N7B02D         4.7         B: ±0.1 nH         8         0.16         6000         700           LQG15HS4N7C02D         4.7         C: ±0.2 nH         8         0.16         6000         700           LQG15HS5N1B02D         5.1         B: ±0.1 nH         8         0.18         5300         650 <td< td=""><td></td><td>LQG15HS3N3S02D</td><td>3.3</td><td>S: ±0.3 nH</td><td>8</td><td>0.125</td><td>6000</td><td>800</td></td<>  |                  | LQG15HS3N3S02D | 3.3   | S: ±0.3 nH | 8  | 0.125      | 6000          | 800                   |
| LQG15HS3N6S02D         3.6         S: ±0.3 nH         8         0.14         6000         750           LQG15HS3N9B02D         3.9         B: ±0.1 nH         8         0.14         6000         750           LQG15HS3N9C02D         3.9         C: ±0.2 nH         8         0.14         6000         750           LQG15HS3N9S02D         3.9         S: ±0.3 nH         8         0.14         6000         750           LQG15HS4N3B02D         4.3         B: ±0.1 nH         8         0.14         6000         750           LQG15HS4N3C02D         4.3         C: ±0.2 nH         8         0.14         6000         750           LQG15HS4N3C02D         4.3         C: ±0.2 nH         8         0.14         6000         750           LQG15HS4N3S02D         4.3         S: ±0.3 nH         8         0.14         6000         750           LQG15HS4N7B02D         4.7         B: ±0.1 nH         8         0.16         6000         700           LQG15HS4N7S02D         4.7         S: ±0.3 nH         8         0.16         6000         700           LQG15HS5N1S02D         5.1         B: ±0.1 nH         8         0.18         5300         650 <td< td=""><td></td><td>LQG15HS3N6B02D</td><td>3.6</td><td>B: ±0.1 nH</td><td>8</td><td>0.14</td><td>6000</td><td>750</td></td<>   |                  | LQG15HS3N6B02D | 3.6   | B: ±0.1 nH | 8  | 0.14       | 6000          | 750                   |
| LQG15HS3N9B02D       3.9       B: ±0.1 nH       8       0.14       6000       750         LQG15HS3N9C02D       3.9       C: ±0.2 nH       8       0.14       6000       750         LQG15HS3N9S02D       3.9       S: ±0.3 nH       8       0.14       6000       750         LQG15HS4N3B02D       4.3       B: ±0.1 nH       8       0.14       6000       750         LQG15HS4N3C02D       4.3       C: ±0.2 nH       8       0.14       6000       750         LQG15HS4N3S02D       4.3       S: ±0.3 nH       8       0.14       6000       750         LQG15HS4N7B02D       4.7       B: ±0.1 nH       8       0.16       6000       750         LQG15HS4N7C02D       4.7       C: ±0.2 nH       8       0.16       6000       700         LQG15HS5N1B02D       5.1       B: ±0.1 nH       8       0.16       6000       700         LQG15HS5N1C02D       5.1       C: ±0.2 nH       8       0.18       5300       650         LQG15HS5N6B02D       5.6       B: ±0.1 nH       8       0.18       4500       650         LQG15HS5N6C02D       5.6       C: ±0.2 nH       8       0.18       4500       650  |                  | LQG15HS3N6C02D | 3.6   | C: ±0.2 nH | 8  | 0.14       | 6000          | 750                   |
| LQG15HS3N9C02D         3.9         C: ±0.2 nH         8         0.14         6000         750           LQG15HS3N9S02D         3.9         S: ±0.3 nH         8         0.14         6000         750           LQG15HS4N3B02D         4.3         B: ±0.1 nH         8         0.14         6000         750           LQG15HS4N3C02D         4.3         C: ±0.2 nH         8         0.14         6000         750           LQG15HS4N3S02D         4.3         S: ±0.3 nH         8         0.14         6000         750           LQG15HS4N7B02D         4.7         B: ±0.1 nH         8         0.16         6000         700           LQG15HS4N7C02D         4.7         C: ±0.2 nH         8         0.16         6000         700           LQG15HS5N1B02D         5.1         B: ±0.1 nH         8         0.16         6000         700           LQG15HS5N1S02D         5.1         C: ±0.2 nH         8         0.18         5300         650           LQG15HS5N6B02D         5.6         B: ±0.1 nH         8         0.18         5300         650           LQG15HS5N6S02D         5.6         C: ±0.2 nH         8         0.18         4500         650 <t< td=""><td></td><td>LQG15HS3N6S02D</td><td>3.6</td><td>S: ±0.3 nH</td><td>8</td><td>0.14</td><td>6000</td><td>750</td></t<>   |                  | LQG15HS3N6S02D | 3.6   | S: ±0.3 nH | 8  | 0.14       | 6000          | 750                   |
| LQG15HS3N9S02D         3.9         S: ±0.3 nH         8         0.14         6000         750           LQG15HS4N3B02D         4.3         B: ±0.1 nH         8         0.14         6000         750           LQG15HS4N3C02D         4.3         C: ±0.2 nH         8         0.14         6000         750           LQG15HS4N3S02D         4.3         S: ±0.3 nH         8         0.14         6000         750           LQG15HS4N7B02D         4.7         B: ±0.1 nH         8         0.16         6000         700           LQG15HS4N7C02D         4.7         C: ±0.2 nH         8         0.16         6000         700           LQG15HS5N1B02D         5.1         B: ±0.1 nH         8         0.16         6000         700           LQG15HS5N1C02D         5.1         C: ±0.2 nH         8         0.18         5300         650           LQG15HS5N1S02D         5.1         C: ±0.2 nH         8         0.18         5300         650           LQG15HS5N6B02D         5.6         B: ±0.1 nH         8         0.18         4500         650           LQG15HS5N6C02D         5.6         C: ±0.2 nH         8         0.18         4500         650 <td< td=""><td></td><td>LQG15HS3N9B02D</td><td>3.9</td><td>B: ±0.1 nH</td><td>8</td><td>0.14</td><td>6000</td><td>750</td></td<>   |                  | LQG15HS3N9B02D | 3.9   | B: ±0.1 nH | 8  | 0.14       | 6000          | 750                   |
| LQG15HS4N3B02D         4.3         B: ±0.1 nH         8         0.14         6000         750           LQG15HS4N3C02D         4.3         C: ±0.2 nH         8         0.14         6000         750           LQG15HS4N3S02D         4.3         S: ±0.3 nH         8         0.14         6000         750           LQG15HS4N7B02D         4.7         B: ±0.1 nH         8         0.16         6000         700           LQG15HS4N7C02D         4.7         C: ±0.2 nH         8         0.16         6000         700           LQG15HS4N7S02D         4.7         S: ±0.3 nH         8         0.16         6000         700           LQG15HS5N1B02D         5.1         B: ±0.1 nH         8         0.18         5300         650           LQG15HS5N1C02D         5.1         C: ±0.2 nH         8         0.18         5300         650           LQG15HS5N6B02D         5.6         B: ±0.1 nH         8         0.18         4500         650           LQG15HS5N6C02D         5.6         C: ±0.2 nH         8         0.18         4500         650           LQG15HS6N2B02D         5.6         S: ±0.3 nH         8         0.18         4500         650 <td< td=""><td></td><td>LQG15HS3N9C02D</td><td>3.9</td><td>C: ±0.2 nH</td><td>8</td><td>0.14</td><td>6000</td><td>750</td></td<>   |                  | LQG15HS3N9C02D | 3.9   | C: ±0.2 nH | 8  | 0.14       | 6000          | 750                   |
| LQG15HS4N3C02D         4.3         C: ±0.2 nH         8         0.14         6000         750           LQG15HS4N3S02D         4.3         S: ±0.3 nH         8         0.14         6000         750           LQG15HS4N7B02D         4.7         B: ±0.1 nH         8         0.16         6000         700           LQG15HS4N7C02D         4.7         C: ±0.2 nH         8         0.16         6000         700           LQG15HS4N7S02D         4.7         S: ±0.3 nH         8         0.16         6000         700           LQG15HS5N1B02D         5.1         B: ±0.1 nH         8         0.18         5300         650           LQG15HS5N1C02D         5.1         C: ±0.2 nH         8         0.18         5300         650           LQG15HS5N6B02D         5.6         B: ±0.1 nH         8         0.18         5300         650           LQG15HS5N6C02D         5.6         C: ±0.2 nH         8         0.18         4500         650           LQG15HS6N2B02D         5.6         S: ±0.3 nH         8         0.18         4500         650           LQG15HS6N2B02D         5.6         S: ±0.3 nH         8         0.18         4500         650 <td< td=""><td></td><td>LQG15HS3N9S02D</td><td>3.9</td><td>S: ±0.3 nH</td><td>8</td><td>0.14</td><td>6000</td><td>750</td></td<>   |                  | LQG15HS3N9S02D | 3.9   | S: ±0.3 nH | 8  | 0.14       | 6000          | 750                   |
| LQG15HS4N3S02D       4.3       S: ±0.3 nH       8       0.14       6000       750         LQG15HS4N7B02D       4.7       B: ±0.1 nH       8       0.16       6000       700         LQG15HS4N7C02D       4.7       C: ±0.2 nH       8       0.16       6000       700         LQG15HS4N7S02D       4.7       S: ±0.3 nH       8       0.16       6000       700         LQG15HS5N1B02D       5.1       B: ±0.1 nH       8       0.18       5300       650         LQG15HS5N1C02D       5.1       C: ±0.2 nH       8       0.18       5300       650         LQG15HS5N6B02D       5.6       B: ±0.1 nH       8       0.18       4500       650         LQG15HS5N6C02D       5.6       C: ±0.2 nH       8       0.18       4500       650         LQG15HS5N6S02D       5.6       S: ±0.3 nH       8       0.18       4500       650         LQG15HS6N2B02D       6.2       B: ±0.1 nH       8       0.20       4500       600         LQG15HS6N2C02D       6.2       C: ±0.2 nH       8       0.20       4500       600  |                  | LQG15HS4N3B02D | 4.3   | B: ±0.1 nH | 8  | 0.14       | 6000          | 750                   |
| LQG15HS4N7B02D       4.7       B: ±0.1 nH       8       0.16       6000       700         LQG15HS4N7C02D       4.7       C: ±0.2 nH       8       0.16       6000       700         LQG15HS4N7S02D       4.7       S: ±0.3 nH       8       0.16       6000       700         LQG15HS5N1B02D       5.1       B: ±0.1 nH       8       0.18       5300       650         LQG15HS5N1C02D       5.1       C: ±0.2 nH       8       0.18       5300       650         LQG15HS5N1S02D       5.1       S: ±0.3 nH       8       0.18       5300       650         LQG15HS5N6B02D       5.6       B: ±0.1 nH       8       0.18       4500       650         LQG15HS5N6C02D       5.6       C: ±0.2 nH       8       0.18       4500       650         LQG15HS6N2B02D       5.6       S: ±0.3 nH       8       0.18       4500       650         LQG15HS6N2B02D       6.2       B: ±0.1 nH       8       0.20       4500       600         LQG15HS6N2C02D       6.2       C: ±0.2 nH       8       0.20       4500       600  |                  | LQG15HS4N3C02D | 4.3   | C: ±0.2 nH | 8  | 0.14       | 6000          | 750                   |
| LQG15HS4N7C02D       4.7       C: ±0.2 nH       8       0.16       6000       700         LQG15HS4N7S02D       4.7       S: ±0.3 nH       8       0.16       6000       700         LQG15HS5N1B02D       5.1       B: ±0.1 nH       8       0.18       5300       650         LQG15HS5N1C02D       5.1       C: ±0.2 nH       8       0.18       5300       650         LQG15HS5N1S02D       5.1       S: ±0.3 nH       8       0.18       5300       650         LQG15HS5N6B02D       5.6       B: ±0.1 nH       8       0.18       4500       650         LQG15HS5N6C02D       5.6       C: ±0.2 nH       8       0.18       4500       650         LQG15HS5N6S02D       5.6       S: ±0.3 nH       8       0.18       4500       650         LQG15HS6N2B02D       6.2       B: ±0.1 nH       8       0.20       4500       600         LQG15HS6N2C02D       6.2       C: ±0.2 nH       8       0.20       4500       600  |                  | LQG15HS4N3S02D | 4.3   | S: ±0.3 nH | 8  | 0.14       | 6000          | 750                   |
| LQG15HS4N7S02D       4.7       S: ±0.3 nH       8       0.16       6000       700         LQG15HS5N1B02D       5.1       B: ±0.1 nH       8       0.18       5300       650         LQG15HS5N1C02D       5.1       C: ±0.2 nH       8       0.18       5300       650         LQG15HS5N1S02D       5.1       S: ±0.3 nH       8       0.18       5300       650         LQG15HS5N6B02D       5.6       B: ±0.1 nH       8       0.18       4500       650         LQG15HS5N6C02D       5.6       C: ±0.2 nH       8       0.18       4500       650         LQG15HS5N6S02D       5.6       S: ±0.3 nH       8       0.18       4500       650         LQG15HS6N2B02D       6.2       B: ±0.1 nH       8       0.20       4500       600         LQG15HS6N2C02D       6.2       C: ±0.2 nH       8       0.20       4500       600  |                  | LQG15HS4N7B02D | 4.7   | B: ±0.1 nH | 8  | 0.16       | 6000          | 700                   |
| LQG15HS5N1B02D       5.1       B: ±0.1 nH       8       0.18       5300       650         LQG15HS5N1C02D       5.1       C: ±0.2 nH       8       0.18       5300       650         LQG15HS5N1S02D       5.1       S: ±0.3 nH       8       0.18       5300       650         LQG15HS5N6B02D       5.6       B: ±0.1 nH       8       0.18       4500       650         LQG15HS5N6C02D       5.6       C: ±0.2 nH       8       0.18       4500       650         LQG15HS5N6S02D       5.6       S: ±0.3 nH       8       0.18       4500       650         LQG15HS6N2B02D       6.2       B: ±0.1 nH       8       0.20       4500       600         LQG15HS6N2C02D       6.2       C: ±0.2 nH       8       0.20       4500       600  |                  | LQG15HS4N7C02D | 4.7   | C: ±0.2 nH | 8  | 0.16       | 6000          | 700                   |
| LQG15HS5N1C02D       5.1       C: ±0.2 nH       8       0.18       5300       650         LQG15HS5N1S02D       5.1       S: ±0.3 nH       8       0.18       5300       650         LQG15HS5N6B02D       5.6       B: ±0.1 nH       8       0.18       4500       650         LQG15HS5N6C02D       5.6       C: ±0.2 nH       8       0.18       4500       650         LQG15HS5N6S02D       5.6       S: ±0.3 nH       8       0.18       4500       650         LQG15HS6N2B02D       6.2       B: ±0.1 nH       8       0.20       4500       600         LQG15HS6N2C02D       6.2       C: ±0.2 nH       8       0.20       4500       600  |                  | LQG15HS4N7S02D | 4.7   | S: ±0.3 nH | 8  | 0.16       | 6000          | 700                   |
| LQG15HS5N1S02D       5.1       S: ±0.3 nH       8       0.18       5300       650         LQG15HS5N6B02D       5.6       B: ±0.1 nH       8       0.18       4500       650         LQG15HS5N6C02D       5.6       C: ±0.2 nH       8       0.18       4500       650         LQG15HS5N6S02D       5.6       S: ±0.3 nH       8       0.18       4500       650         LQG15HS6N2B02D       6.2       B: ±0.1 nH       8       0.20       4500       600         LQG15HS6N2C02D       6.2       C: ±0.2 nH       8       0.20       4500       600  |                  | LQG15HS5N1B02D | 5.1   | B: ±0.1 nH | 8  | 0.18       | 5300          | 650                   |
| LQG15HS5N6B02D       5.6       B: ±0.1 nH       8       0.18       4500       650         LQG15HS5N6C02D       5.6       C: ±0.2 nH       8       0.18       4500       650         LQG15HS5N6S02D       5.6       S: ±0.3 nH       8       0.18       4500       650         LQG15HS6N2B02D       6.2       B: ±0.1 nH       8       0.20       4500       600         LQG15HS6N2C02D       6.2       C: ±0.2 nH       8       0.20       4500       600  |                  | LQG15HS5N1C02D | 5.1   | C: ±0.2 nH | 8  | 0.18       | 5300          | 650                   |
| LQG15HS5N6C02D       5.6       C: ±0.2 nH       8       0.18       4500       650         LQG15HS5N6S02D       5.6       S: ±0.3 nH       8       0.18       4500       650         LQG15HS6N2B02D       6.2       B: ±0.1 nH       8       0.20       4500       600         LQG15HS6N2C02D       6.2       C: ±0.2 nH       8       0.20       4500       600  |                  | LQG15HS5N1S02D | 5.1   | S: ±0.3 nH | 8  | 0.18       | 5300          | 650                   |
| LQG15HS5N6S02D       5.6       S: ±0.3 nH       8       0.18       4500       650         LQG15HS6N2B02D       6.2       B: ±0.1 nH       8       0.20       4500       600         LQG15HS6N2C02D       6.2       C: ±0.2 nH       8       0.20       4500       600  |                  | LQG15HS5N6B02D | 5.6   | B: ±0.1 nH | 8  | 0.18       | 4500          | 650                   |
| LQG15HS6N2B02D     6.2     B: ±0.1 nH     8     0.20     4500     600       LQG15HS6N2C02D     6.2     C: ±0.2 nH     8     0.20     4500     600  |                  | LQG15HS5N6C02D | 5.6   | C: ±0.2 nH | 8  | 0.18       | 4500          | 650                   |
| LQG15HS6N2C02D 6.2 C: ±0.2 nH 8 0.20 4500 600  |                  | LQG15HS5N6S02D | 5.6   | S: ±0.3 nH | 8  | 0.18       | 4500          | 650                   |
|  |                  | LQG15HS6N2B02D | 6.2   | B: ±0.1 nH | 8  | 0.20       | 4500          | 600                   |
| LQG15HS6N2S02D   6.2   S: ±0.3 nH   8   0.20   4500   600  |                  | LQG15HS6N2C02D | 6.2   | C: ±0.2 nH | 8  | 0.20       | 4500          | 600                   |
|  |                  | LQG15HS6N2S02D | 6.2   | S: ±0.3 nH | 8  | 0.20       | 4500          | 600                   |

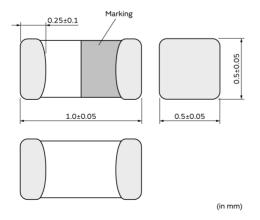
| .: JELF243B_001         | 100-01                |                          |           |             |                        |                         | P3/1/                 |
|-------------------------|-----------------------|--------------------------|-----------|-------------|------------------------|-------------------------|-----------------------|
|                         |                       | Indu                     | ctance    |             | DC                     | Self-resonant           |                       |
| Customer<br>Part number | Murata<br>Part number | Nominal<br>value<br>(nH) | Tolerance | Q<br>(Min.) | resistance<br>(Ω max.) | frequency<br>(MHz min.) | Rated current<br>(mA) |
|                         | LQG15HS6N8G02D        | 6.8                      | G: ±2%    | 8           | 0.22                   | 4500                    | 600                   |
|                         | LQG15HS6N8H02D        | 6.8                      | H: ±3%    | 8           | 0.22                   | 4500                    | 600                   |
|                         | LQG15HS6N8J02D        | 6.8                      | J: ±5%    | 8           | 0.22                   | 4500                    | 600                   |
|                         | LQG15HS7N5G02D        | 7.5                      | G: ±2%    | 8           | 0.24                   | 4200                    | 550                   |
|                         | LQG15HS7N5H02D        | 7.5                      | H: ±3%    | 8           | 0.24                   | 4200                    | 550                   |
|                         | LQG15HS7N5J02D        | 7.5                      | J: ±5%    | 8           | 0.24                   | 4200                    | 550                   |
|                         | LQG15HS8N2G02D        | 8.2                      | G: ±2%    | 8           | 0.24                   | 3700                    | 550                   |
|                         | LQG15HS8N2H02D        | 8.2                      | H: ±3%    | 8           | 0.24                   | 3700                    | 550                   |
|                         | LQG15HS8N2J02D        | 8.2                      | J: ±5%    | 8           | 0.24                   | 3700                    | 550                   |
|                         | LQG15HS9N1G02D        | 9.1                      | G: ±2%    | 8           | 0.26                   | 3400                    | 500                   |
|                         | LQG15HS9N1H02D        | 9.1                      | H: ±3%    | 8           | 0.26                   | 3400                    | 500                   |
|                         | LQG15HS9N1J02D        | 9.1                      | J: ±5%    | 8           | 0.26                   | 3400                    | 500                   |
|                         | LQG15HS10NG02D        | 10                       | G: ±2%    | 8           | 0.26                   | 3400                    | 500                   |
|                         | LQG15HS10NH02D        | 10                       | H: ±3%    | 8           | 0.26                   | 3400                    | 500                   |
|                         | LQG15HS10NJ02D        | 10                       | J: ±5%    | 8           | 0.26                   | 3400                    | 500                   |
|                         | LQG15HS12NG02D        | 12                       | G: ±2%    | 8           | 0.28                   | 3000                    | 500                   |
|                         | LQG15HS12NH02D        | 12                       | H: ±3%    | 8           | 0.28                   | 3000                    | 500                   |
|                         | LQG15HS12NJ02D        | 12                       | J: ±5%    | 8           | 0.28                   | 3000                    | 500                   |
|                         | LQG15HS15NG02D        | 15                       | G: ±2%    | 8           | 0.32                   | 2500                    | 450                   |
|                         | LQG15HS15NH02D        | 15                       | H: ±3%    | 8           | 0.32                   | 2500                    | 450                   |
|                         | LQG15HS15NJ02D        | 15                       | J: ±5%    | 8           | 0.32                   | 2500                    | 450                   |
|                         | LQG15HS18NG02D        | 18                       | G: ±2%    | 8           | 0.36                   | 2200                    | 400                   |
|                         | LQG15HS18NH02D        | 18                       | H: ±3%    | 8           | 0.36                   | 2200                    | 400                   |
|                         | LQG15HS18NJ02D        | 18                       | J: ±5%    | 8           | 0.36                   | 2200                    | 400                   |
|                         | LQG15HS22NG02D        | 22                       | G: ±2%    | 8           | 0.42                   | 1900                    | 350                   |
|                         | LQG15HS22NH02D        | 22                       | H: ±3%    | 8           | 0.42                   | 1900                    | 350                   |
|                         | LQG15HS22NJ02D        | 22                       | J: ±5%    | 8           | 0.42                   | 1900                    | 350                   |
|                         | LQG15HS27NG02D        | 27                       | G: ±2%    | 8           | 0.46                   | 1700                    | 350                   |
|                         | LQG15HS27NH02D        | 27                       | H: ±3%    | 8           | 0.46                   | 1700                    | 350                   |
|                         | LQG15HS27NJ02D        | 27                       | J: ±5%    | 8           | 0.46                   | 1700                    | 350                   |
|                         | LQG15HS33NG02D        | 33                       | G: ±2%    | 8           | 0.58                   | 1600                    | 350                   |
|                         | LQG15HS33NH02D        | 33                       | H: ±3%    | 8           | 0.58                   | 1600                    | 350                   |
|                         | LQG15HS33NJ02D        | 33                       | J: ±5%    | 8           | 0.58                   | 1600                    | 350                   |
|                         | LQG15HS39NG02D        | 39                       | G: ±2%    | 8           | 0.65                   | 1200                    | 300                   |
|                         | LQG15HS39NH02D        | 39                       | H: ±3%    | 8           | 0.65                   | 1200                    | 300                   |
|                         | LQG15HS39NJ02D        | 39                       | J: ±5%    | 8           | 0.65                   | 1200                    | 300                   |
|                         | LQG15HS47NG02D        | 47                       | G: ±2%    | 8           | 0.72                   | 1000                    | 300                   |
|                         | LQG15HS47NH02D        | 47                       | H: ±3%    | 8           | 0.72                   | 1000                    | 300                   |
|                         | LQG15HS47NJ02D        | 47                       | J: ±5%    | 8           | 0.72                   | 1000                    | 300                   |
|                         | LQG15HS56NG02D        | 56                       | G: ±2%    | 8           | 0.82                   | 800                     | 250                   |
|                         | LQG15HS56NH02D        | 56                       | H: ±3%    | 8           | 0.82                   | 800                     | 250                   |
|                         | LQG15HS56NJ02D        | 56                       | J: ±5%    | 8           | 0.82                   | 800                     | 250                   |
|                         | LQG15HS68NG02D        | 68                       | G: ±2%    | 8           | 0.92                   | 800                     | 250                   |
|                         | LQG15HS68NH02D        | 68                       | H: ±3%    | 8           | 0.92                   | 800                     | 250                   |
|                         | LQG15HS68NJ02D        | 68                       | J: ±5%    | 8           | 0.92                   | 800                     | 250                   |

|                         |                       | Indu                     | ctance    | DC DC       |                        | Colf recoment                            |                       |
|-------------------------|-----------------------|--------------------------|-----------|-------------|------------------------|--|-----------------------|
| Customer<br>Part number | Murata<br>Part number | Nominal<br>value<br>(nH) | Tolerance | Q<br>(Min.) | resistance<br>(Ω max.) | Self-resonant<br>frequency<br>(MHz min.) | Rated current<br>(mA) |
|                         | LQG15HS82NG02D        | 82                       | G: ±2%    | 8           | 1.20                   | 700                                      | 200                   |
|                         | LQG15HS82NH02D        | 82                       | H: ±3%    | 8           | 1.20                   | 700                                      | 200                   |
|                         | LQG15HS82NJ02D        | 82                       | J: ±5%    | 8           | 1.20                   | 700                                      | 200                   |
|                         | LQG15HSR10G02D        | 100                      | G: ±2%    | 8           | 1.25                   | 600                                      | 200                   |
|                         | LQG15HSR10H02D        | 100                      | H: ±3%    | 8           | 1.25                   | 600                                      | 200                   |
|                         | LQG15HSR10J02D        | 100                      | J: ±5%    | 8           | 1.25                   | 600                                      | 200                   |
|                         | LQG15HSR12G02D        | 120                      | G: ±2%    | 8           | 1.30                   | 600                                      | 200                   |
|                         | LQG15HSR12H02D        | 120                      | H: ±3%    | 8           | 1.30                   | 600                                      | 200                   |
|                         | LQG15HSR12J02D        | 120                      | J: ±5%    | 8           | 1.30                   | 600                                      | 200                   |
|                         | LQG15HSR15G02D        | 150                      | G: ±2%    | 8           | 2.99                   | 550                                      | 150                   |
|                         | LQG15HSR15H02D        | 150                      | H: ±3%    | 8           | 2.99                   | 550                                      | 150                   |
|                         | LQG15HSR15J02D        | 150                      | J: ±5%    | 8           | 2.99                   | 550                                      | 150                   |
|                         | LQG15HSR18G02D        | 180                      | G: ±2%    | 8           | 3.38                   | 500                                      | 150                   |
|                         | LQG15HSR18H02D        | 180                      | H: ±3%    | 8           | 3.38                   | 500                                      | 150                   |
|                         | LQG15HSR18J02D        | 180                      | J: ±5%    | 8           | 3.38                   | 500                                      | 150                   |
|                         | LQG15HSR22G02D        | 220                      | G: ±2%    | 8           | 3.77                   | 450                                      | 120                   |
|                         | LQG15HSR22H02D        | 220                      | H: ±3%    | 8           | 3.77                   | 450                                      | 120                   |
|                         | LQG15HSR22J02D        | 220                      | J: ±5%    | 8           | 3.77                   | 450                                      | 120                   |
|                         | LQG15HSR27G02D        | 270                      | G: ±2%    | 8           | 4.94                   | 400                                      | 110                   |
|                         | LQG15HSR27H02D        | 270                      | H: ±3%    | 8           | 4.94                   | 400                                      | 110                   |
|                         | LQG15HSR27J02D        | 270                      | J: ±5%    | 8           | 4.94                   | 400                                      | 110                   |

## 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<br>Humidity: 60% to 70% (RH)<br>Atmospheric pressure: 86 kPa to 106 kPa  |

## 5. Appearance and Dimensions

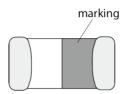


Unit mass (typical value): 0.001 g

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## 6. Marking

Direction identification marking: black



## 7. Electrical Performance

|     | ltom                    | Specification                                    | Test method   |
|-----|-------------------------|--|---|
| No. | Item                    |  | 12211112112   |
| 7.1 | Inductance<br>Q         | Meet chapter 3 ratings.  Meet chapter 3 ratings. | Measuring equipment: Keysight E4991A or the equivalent Measuring frequency: 100 MHz Measuring conditions: Measurement signal level: Approx. 0 dBm Measurement terminal distance: 0.5 mm Electrical length: 10 mm Weight: Approx. 1 N to 5 N Measuring fixture: Keysight 16197A Position the chip coil under test as shown in the measuring example below and connect it to the electrode by applying weight. Measurement example: |
|     |                         |  | Product(top view)  Direction identification marking  Product(top view)  Direction identification marking  |
|     |                         |  | Measuring method: see "Electrical performance: Measuring method for inductance/Q" in the Appendix.  |
| 7.3 | DC resistance           | Meet chapter 3 ratings.                          | Measuring equipment: digital multimeter   |
| 7.4 | Self-resonant frequency | Meet chapter 3 ratings.                          | Measuring equipment: Keysight 8753C or the equivalent   |
| 7.5 | Rated current           | Product temperature rise: 25°C max.              | Apply the rated current specified in chapter 3.   |

## 8. Mechanical Performance

| No. | Item                         | Specification   | Test method  |
|-----|------------------------------|---|--|
| 8.1 | Shear test                   | No significant mechanical damage or no sign of electrode peeling off shall be observed.             | Test substrate: glass-epoxy substrate Applying force: 5 N Holding time: 5 s±1 s Force application direction:   |
|     |                              |   | F  |
| 8.2 | Bending test                 | No significant mechanical damage or no sign of electrode peeling off shall be observed.             | Test substrate: glass-epoxy substrate (100 mm × 40 mm × 0.8 mm) Pressurizing speed: 1 mm/s Pressure jig: R340 Deflection: 2 mm Holding time: 30 s  |
|     |                              |   | Pressure jig  R340   F  Deflection  45   45   Product (in mm)  |
| 8.3 | Vibration                    | Appearance shall have no significant mechanical damage. Inductance change rate: within ±10%         | Oscillation frequency: 10 Hz to 55 Hz to 10 Hz, for approx. 1 min Total amplitude: 1.5 mm Test time: 3 directions perpendicular to each other, 2 h for each direction (6 h in total)   |
| 8.4 | Solderability                | 90% or more of the outer electrode shall be covered with new solder seamlessly.                     | Flux: immersed in ethanol solution with a rosin content of 25(wt)% for 5 s to 10 s Solder: Sn-3.0Ag-0.5Cu solder Pre-heating: 150°C±10°C/60 s to 90 s Solder temperature: 240°C±5°C Immersion time: 3 s±1 s  |
| 8.5 | Resistance to soldering heat | Appearance: No significant mechanical damage shall be observed. Inductance change rate: within ±10% | Flux: immersed in ethanol solution with a rosin content of 25(wt)% for 5 s to 10 s Solder: Sn-3.0Ag-0.5Cu solder Pre-heating: 150°C±10°C/1 min to 2 min Solder temperature: 270°C±5°C Immersion time: 10 s±1 s Post-treatment: left at a room condition for 24 h±2 h |

## 9. Environmental Performance

The product is soldered on a glass-epoxy substrate for test.

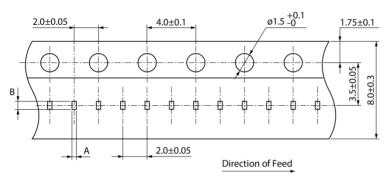
| No. | Item          | Specification   | Test method  |
|-----|---------------|---|--|
| 9.1 | Humidity      | Appearance: No significant mechanical damage shall be observed. Inductance change rate: within ±10% | Temperature: 40°C±2°C Humidity: 90% (RH) to 95% (RH) Test time: 1000 h (+48 h, -0 h) Post-treatment: left at a room condition for 24 h±2 h   |
| 9.2 | Heat life     | Appearance: No significant mechanical damage shall be observed. Inductance change rate: within ±10% | Temperature: 125°C±2°C Applied current: Rated current specified in chapter 3 Test time: 1000 h (+48 h, -0 h) Post-treatment: left at a room condition for 24 h±2 h   |
| 9.3 | Humidity load | Appearance: No significant mechanical damage shall be observed. Inductance change rate: within ±10% | Temperature: 40°C±2°C<br>Humidity: 90% (RH) to 95% (RH)<br>Applied current: Rated current specified in chapter 3<br>Test time: 1000 h (+48 h, -0 h)<br>Post-treatment: left at a room condition for 24 h±2 h |

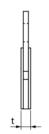
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| No. | Item              | Specification   | Test method  |
|-----|-------------------|---|--|
| 9.4 | Temperature cycle | Appearance: No significant mechanical damage shall be observed. Inductance change rate: within ±10% | Single cycle conditions: Step 1: -55°C (+0°C, -3°C)/30 min±3 min Step 2: ordinary temperature/2 min to 3 min Step 3: +125°C (+3°C, -0°C)/30 min±3 min Step 4: ordinary temperature/2 min to 3 min Number of testing: 10 cycles Post-treatment: left at a room condition for 24 h±2 h |

## 10. Specification of Packaging

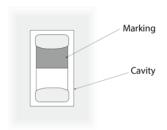
## 10.1 Appearance and dimensions of tape (8 mm width/paper tape)





| Α | 0.62±0.04 |   |        |
|---|-----------|---|--------|
| В | 1.12±0.04 |   |        |
| t | 0.8 max.  |   |        |
|   |           | ( | in mm) |

■ Top view



Direction of feed

## 10.2 Taping specifications

| Packing quantity (Standard quantity) | 10000 pcs/reel  |
|--------------------------------------|---|
| Packing method                       | The products are placed in cavities of a carrier tape and sealed by a cover tape (top tape and bottom tape when the cavities of the carrier tape are punched type).       |
| Feed hole position                   | The feed holes on the carrier tape are on the right side when the cover tape (top tape when the cavities of the carrier tape are punched type) is pulled toward the user. |
| Joint                                | The carrier tape and cover tape (top tape when the cavities of the carrier tape are punched type) 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.          |

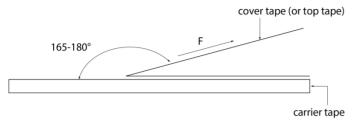
## 10.3 Break down force of tape

| Cover tape (or top tape)  | 5 N min. |
|---|----------|
| Bottom tape (only when the cavities of the carrier tape are punched type) | 5 N min. |

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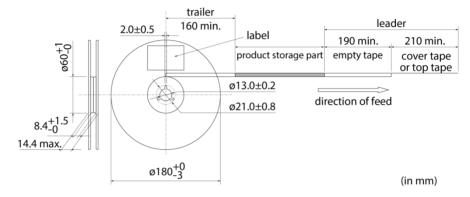
#### 10.4 Peeling off force of tape

| Speed of peeling off | 300 mm/min   |
|----------------------|--|
| Peeling off force    | 0.1 N to 0.6 N (The lower limit is for typical value.) |



#### 10.5 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.)



#### 10.6 Marking for reel

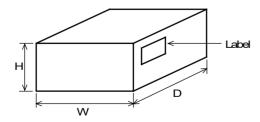
Customer part number, Murata part number, inspection number (\*1), RoHS marking (\*2), quantity, etc.

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

#### 10.7 Marking on outer box (corrugated box)

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

#### 10.8 Specification of outer box



| Dimensions of outer box (mm)                       |     |    | Standard reel quantity |  |
|--|-----|----|------------------------|--|
| W  | D   | Н  | in outer box (reel)    |  |
| 186  | 186 | 93 | 5                      |  |
| * Above outer box size is typical. It depends on a |     |    |                        |  |

<sup>\*</sup> Above outer box size is typical. It depends on a quantity of an order.



#### 11. ACaution

#### 11.1 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).

#### 11.2 Precautions on rating

Avoid using in exceeded the rated temperature range, rated voltage, or rated current.

Usage when the ratings are exceeded could lead to wire breakage, burning, or other serious fault.

#### 11.3 Inrush current

If an inrush current (or pulse current or rush current) that significantly exceeds the rated current is applied to the product, overheating could occur, resulting in wire breakage, burning, or other serious fault.

#### 12. Precautions for Use

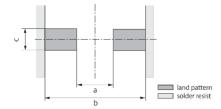
This product is for use only with reflow soldering. It is designed to be mounted by soldering. If you want to use other mounting method, for example, using a conductive adhesive, please consult us beforehand.

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.

#### 12.1 Land dimensions

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



|   |     | _   |
|---|-----|-----|
| а | 0.4 |     |
| b | 1.2 |     |
| С | 0.5 |     |
|   | (in | mm) |

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#### 12.2 Flux and solder used

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

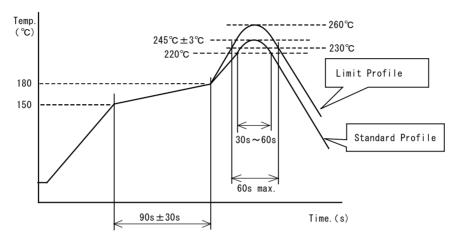
If you want to use a flux other than the above, please consult our technical department.

#### 12.3 Soldering conditions (reflow)

 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 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                  |

#### 12.4 Reworking with soldering iron

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

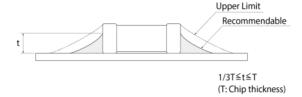
| Item                                    | Requirement         |  |
|---|---------------------|--|
| Pre-heating                             | 150°C/approx. 1 min |  |
| Tip temperature of soldering iron       | 350°C max.          |  |
| Power consumption of soldering iron     | 80 W max.           |  |
| Tip diameter of soldering iron          | ø3 mm max.          |  |
| Soldering time                          | 3 s (+1 s, -0 s)    |  |
| Number of reworking operations          | 2 times max.        |  |
| ** ** ** ** * * * * * * * * * * * * * * |                     |  |

<sup>\*</sup> 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.

# Reference Only

#### 12.5 Solder volume

Solder shall be used not to be exceeded the upper limits as shown below.



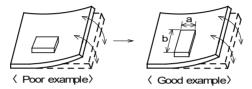
An increased solder volume increases mechanical stress on the product. Exceeding solder volume may cause the failure of mechanical or electrical performance.

#### 12.6 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 (length: a < b) to the mechanical stress.

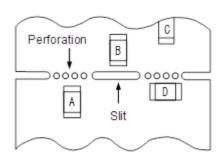


#### (2) Components location on PCB separation

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.

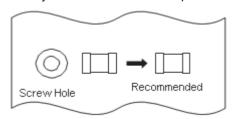
| Contents of measures  | Stress level |
|---|--------------|
| (1) Turn the mounting direction of the component parallel to the board separation surface.  | A > D*1      |
| (2) Add slits in the board separation part.   | A > B        |
| (3) Keep the mounting position of the component away from the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



#### (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.

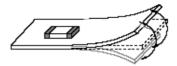
Mount the component in a position as far away from the screw holes as possible.

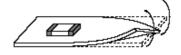


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#### 12.7 Handling of substrate

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

#### 12.8 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.

#### 12.9 Storage and transportation

| Storage period     | Use the product within 6 months after delivery. If you do not use the product for more than 6 months, check solderability before using it.   |
|--------------------|--|
| Storage conditions | <ul> <li>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 may cause the poor solderability.</li> <li>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.</li> <li>Avoid keeping the products in a place exposed to direct sunlight, heat or vibration.</li> <li>Do not keep products in bulk packaging. Bulk storage could result in collisions between the products or between the products and other parts, resulting in chipping or wire breakage.</li> <li>Avoid storing the product by itself bare (i.e. exposed directly to air).</li> </ul> |
| Transportation     | Excessive vibration and impact reduces the reliability of the products. Exercise caution when handling the products.   |

#### 12.10 Resin coating (including moisture-proof coating)

When the product is coated/molded with resin, its electrical characteristics may change.

A wire breakage issue may occur by mechanical stress caused by the resin, amount/cured shape of resin, or operating condition etc.

Some resins contain impurities or hydrolyzable chlorine, which could result in corrosion of the conducting materials, 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.

#### 12.11 Mounting conditions

Check the mounting condition before using.

Using mounting conditions (nozzles, equipment conditions, etc.) that are not suitable for products may lead to pick up errors, misalignment, or damage to the product.

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#### 12.12 Operating environment

Do not use this product under the following environmental conditions as it may cause deterioration of product quality.

- (1) In the corrodible atmosphere such as acidic gases, alkaline gases, chlorine, sulfur gases, organic gases and etc. (the sea breeze, Cl2, H2S, NH3, SO2, NO2, etc)
- (2) In the atmosphere where liquid such as organic solvent, may splash on the products.
- (3) In the atmosphere where the temperature/humidity changes rapidly and it is easy to dew.

#### 12.13 Mounting density

If this product is placed near heat-generating products, be sure to implement sufficient heat-dissipating measures. If this product is subjected to a significant amount of heat from other products, this could adversely affect product quality, resulting in a circuit malfunction or failure of the mounted section. Also, be sure that the product is used in a manner so that the heat that the product is subjected to from other products does not exceed the upper limit of the rated operating temperature for the product.

#### 13. **A**Note

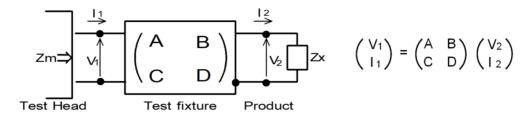
- (1) Please make sure that your product has been evaluated in view of your specifications with our product being mounted to your product.
- (2) You are requested not to use our product deviating from the reference specifications.
- (3) The contents of this reference specification are subject to change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

### **Appendix**

Electrical performance: Measuring method for inductance/Q (Q measurement is applicable only when the Q value is included in the rating table.)

Perform measurement using the method described below. (Perform correction for the error deriving from the measuring terminal.)

(1) Residual elements and stray elements of the measuring terminal can be expressed by the F parameter for the 2-pole terminal as shown in the figure below.



(2) The product's impedance value (Zx) and measured impedance value (Zm) can be expressed as shown below, by using the respective current and voltage for input/output.

$$Zm = \frac{V_1}{I_1} \qquad Zx = \frac{V_2}{I_2}$$

(3) Thus, the relationship between the product's impedance value (Zx) and measured impedance value (Zm) is as follows.

| Zv-α Zm-β               | β = | D/A = 1         | (1 - Yom Zsm) Z  | 'ss         |
|-------------------------|-----|-----------------|--|-------------|
| Zx=α <u> β</u><br>1-ZmΓ | Zss | s: residual imp | impedance of short<br>pedance of short<br>admittance whe | chip (0 nH) |

(4) Calculate inductance Lx and Qx using the equations shown below.

| , | Calculate inductance Ex and Qx deing the equations enount below. |                             |  |  |
|---|--|-----------------------------|--|--|
|   | $Lx = \frac{Im(Zx)}{2\pi f}$                                     | Lx: inductance of chip coil |  |  |
|   | lm(Zx)   | Qx: Q of chip coil          |  |  |
|   | $Qx = \frac{RR(Zx)}{Re(Zx)}$                                     | f: measuring frequency      |  |  |



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Tel: +00 852-30501935

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