



Reference Specification

Leaded MLCC for General Purpose
RDE Series

Product specifications in this catalog are as of Mar. 2022, and are subject to change or obsolescence without notice.

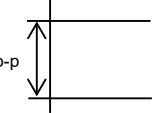
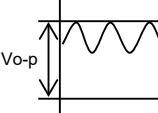
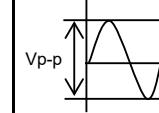
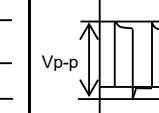
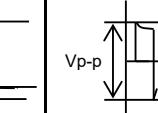
Please consult the approval sheet before ordering. Please read rating and Cautions first.

⚠ CAUTION

1. OPERATING VOLTAGE

When DC-rated capacitors are to be used in AC or ripple current circuits, be sure to maintain the V_{p-p} value of the applied voltage or the V_{o-p} which contains DC bias within the rated voltage range. When the voltage is started to apply to the circuit or it is stopped applying, the irregular voltage may be generated for a transit period because of resonance or switching. Be sure to use a capacitor within rated voltage containing these irregular voltage.

When DC-rated capacitors are to be used in input circuits from commercial power source (AC filter), be sure to use Safety Recognized Capacitors because various regulations on withstand voltage or impulse withstand established for each equipment should be taken into considerations.

| Voltage | DC Voltage | DC+AC Voltage | AC Voltage | Pulse Voltage(1) | Pulse Voltage(2) |
|------------------------|---|---|---|--|---|
| Positional Measurement |  |  |  |  |  |

2. OPERATING TEMPERATURE AND SELF-GENERATED HEAT

Keep the surface temperature of a capacitor below the upper limit of its rated operating temperature range. Be sure to take into account the heat generated by the capacitor itself.

When the capacitor is used in a high-frequency current, pulse current or the like, it may have the self-generated heat due to dielectric-loss. In case of Class 2 capacitors (Temp.Char. : X7R,X7S,X8L, etc.), applied voltage should be the load such as self-generated heat is within 20 °C on the condition of atmosphere temperature 25 °C. Please contact us if self-generated heat is occurred with Class 1 capacitors (Temp.Char. : C0G,U2J,X8G, etc.). When measuring, use a thermocouple of small thermal capacity-K of Φ0.1mm and be in the condition where capacitor is not affected by radiant heat of other components and wind of surroundings. Excessive heat may lead to deterioration of the capacitor's characteristics and reliability.

3. FAIL-SAFE

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

4. OPERATING AND STORAGE ENVIRONMENT

The insulating coating of capacitors does not form a perfect seal; therefore, do not use or store capacitors in a corrosive atmosphere, especially where chloride gas, sulfide gas, acid, alkali, salt or the like are present. And avoid exposure to moisture. Before cleaning, bonding, or molding this product, verify that these processes do not affect product quality by testing the performance of a cleaned, bonded or molded product in the intended equipment. Store the capacitors where the temperature and relative humidity do not exceed 5 to 40 °C and 20 to 70%. Use capacitors within 6 months.

5. VIBRATION AND IMPACT

Do not expose a capacitor or its leads to excessive shock or vibration during use.

6. SOLDERING

When soldering this product to a PCB/PWB, do not exceed the solder heat resistance specification of the capacitor. Subjecting this product to excessive heating could melt the internal junction solder and may result in thermal shocks that can crack the ceramic element.

7. BONDING AND RESIN MOLDING, RESIN COAT

In case of bonding, molding or coating this product, verify that these processes do not affect the quality of capacitor by testing the performance of a bonded or molded product in the intended equipment.

In case of the amount of applications, dryness / hardening conditions of adhesives and molding resins containing organic solvents (ethyl acetate, methyl ethyl ketone, toluene, etc.) are unsuitable, the outer coating resin of a capacitor is damaged by the organic solvents and it may result, worst case, in a short circuit.

The variation in thickness of adhesive or molding resin may cause a outer coating resin cracking and/or ceramic element cracking of a capacitor in a temperature cycling.

8. TREATMENT AFTER BONDING AND RESIN MOLDING, RESIN COAT

When the outer coating is hot (over 100 °C) after soldering, it becomes soft and fragile.

So please be careful not to give it mechanical stress.

Failure to follow the above cautions may result, worst case, in a short circuit and cause fuming or partial dispersion when the product is used.

9. LIMITATION OF APPLICATIONS

Please contact us before using our products for the applications listed below which require especially high reliability for the prevention of defects which might directly cause damage to the third party's life, body or property.

- | | |
|--|---|
| 1. Aircraft equipment | 2. Aerospace equipment |
| 3. Undersea equipment | 4. Power plant control equipment |
| 5. Medical equipment | 6. Transportation equipment (vehicles, trains, ships, etc.) |
| 7. Traffic signal equipment | 8. Disaster prevention / crime prevention equipment |
| 9. Data-processing equipment exerting influence on public | |
| 10. Application of similar complexity and/or reliability requirements to the applications listed in the above. | |

NOTICE

1. CLEANING (ULTRASONIC CLEANING)

To perform ultrasonic cleaning, observe the following conditions.

Rinse bath capacity : Output of 20 watts per liter or less.

Rinsing time : 5 min maximum.

Do not vibrate the PCB/PWB directly.

Excessive ultrasonic cleaning may lead to fatigue destruction of the lead wires.

2. SOLDERING AND MOUNTING

Insertion of the Lead Wire

- When soldering, insert the lead wire into the PCB without mechanically stressing the lead wire.
- Insert the lead wire into the PCB with a distance appropriate to the lead space.

3. CAPACITANCE CHANGE OF CAPACITORS

- Class 2 capacitors (Temp.Char. : X7R,X7S,X8L etc.)

Class 2 capacitors have an aging characteristic, whereby the capacitor continually decreases its capacitance slightly if the capacitor leaves for a long time. Moreover, capacitance might change greatly depending on a surrounding temperature or an applied voltage. So, it is not likely to be able to use for the time constant circuit.

Please contact us if you need a detailed information.

⚠ 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 this specification.

1. Application

This product specification is applied to Leaded MLCC RDE series used for General Electronic equipment.

Do not use these products in any automotive power train or safety equipment including battery chargers for electric vehicles and plug-in hybrids.

2. Rating

- Part Number Configuration

| ex.) | RDE | 5C | 2E | 100 | J | 1 | K1 | H03 | B |
|------|--------|-----------------------------|---------------|-------------|-----------------------|-----------------|------------|--------------------------|---------|
| | Series | Temperature Characteristics | Rated Voltage | Capacitance | Capacitance Tolerance | Dimension (LxW) | Lead Style | Individual Specification | Package |

- Temperature Characteristics

| Code | Temp. Char. | Temp. Range | Temp.coef. | Standard Temp. | Operating Temp. Range |
|------|-------------------|----------------------|--------------------------------|----------------|-----------------------|
| 5C | C0G (EIA code) | -55~25°C 25~125°C | 0+30/-72ppm/°C 0+/-30ppm/°C | 25°C | -55~125°C |

- Rated Voltage

| Code | Rated voltage |
|------|---------------|
| 2E | DC250V |
| 2J | DC630V |
| 3A | DC1000V |

- Capacitance

The first two digits denote significant figures ; the last digit denotes the multiplier of 10 in pF.

ex.) In case of 100

$$10 \times 10^0 = 10\text{pF}$$

- Capacitance Tolerance

| Code | Capacitance Tolerance |
|------|-----------------------|
| J | +/-5% |

- Dimension (LxW)

Please refer to [Part number list].

- Lead Style

*Lead wire is "solder coated CP wire".

| Code | Lead Style | Lead spacing (mm) |
|------|--------------------------|-------------------|
| K1 | Inside crimp type | 5.0+/-0.8 |
| M1 | Inside crimp taping type | 5.0+0.6/-0.2 |

- Individual Specification

Murata's control code.

Please refer to [Part number list].

- Package

| Code | Package |
|------|---------------------|
| A | Taping type of Ammo |
| B | Bulk type |

3. Marking

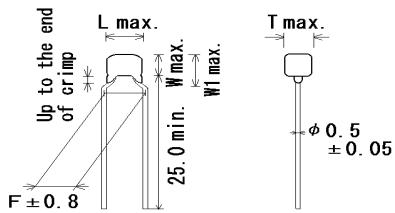
- Temp. char. : Letter code : A (C0G Char.)
 Capacitance : Actual numbers (Less than 100pF)
 3 digit numbers (100pF and over)
 Capacitance tolerance : Code
 Rated voltage : Letter code : 4 (DC250V. Except dimension code : 1)
 Letter code : 7 (DC630V. Except dimension code : 1)
 Letter code : A (DC1000V.)
 Company name code : Abbreviation : **C** (Except dimension code : 1)

(Ex.)

| | | Rated voltage | DC250V | DC630V | DC1000V |
|--|--|----------------|---------------------|---------------------|---------------------|
| | | Dimension code | | | |
| | | 1 | A 102J | A 102J | - |
| | | 2 | C 102 J4A | C 102 J7A | C 102 JAA |

4. Part number list

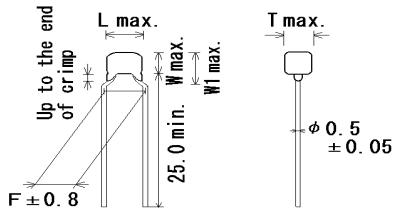
- Inside Crimp
(Lead Style : K*)



Unit : mm

| Customer Part Number | Murata Part Number | T.C. | DC Rated Volt. (V) | Cap. | Cap. Tol. | Dimension (mm) | | | | | Dimension (LxW) Lead Style | Pack qty. (pcs) |
|----------------------|--------------------|------|--------------------|-------|-----------|----------------|-----|-----|-----|------|-------------------------------|-----------------|
| | | | | | | L | W | W1 | F | T | | |
| | RDE5C2E100J1K1H03B | C0G | 250 | 10pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E100J2K1H03B | C0G | 250 | 10pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E120J1K1H03B | C0G | 250 | 12pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E120J2K1H03B | C0G | 250 | 12pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E150J1K1H03B | C0G | 250 | 15pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E150J2K1H03B | C0G | 250 | 15pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E180J1K1H03B | C0G | 250 | 18pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E180J2K1H03B | C0G | 250 | 18pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E220J1K1H03B | C0G | 250 | 22pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E220J2K1H03B | C0G | 250 | 22pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E270J1K1H03B | C0G | 250 | 27pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E270J2K1H03B | C0G | 250 | 27pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E330J1K1H03B | C0G | 250 | 33pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E330J2K1H03B | C0G | 250 | 33pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E390J1K1H03B | C0G | 250 | 39pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E390J2K1H03B | C0G | 250 | 39pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E470J1K1H03B | C0G | 250 | 47pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E470J2K1H03B | C0G | 250 | 47pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E560J1K1H03B | C0G | 250 | 56pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E560J2K1H03B | C0G | 250 | 56pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E680J1K1H03B | C0G | 250 | 68pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E680J2K1H03B | C0G | 250 | 68pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E820J1K1H03B | C0G | 250 | 82pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E820J2K1H03B | C0G | 250 | 82pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E101J1K1H03B | C0G | 250 | 100pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E101J2K1H03B | C0G | 250 | 100pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E121J1K1H03B | C0G | 250 | 120pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E121J2K1H03B | C0G | 250 | 120pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E151J1K1H03B | C0G | 250 | 150pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E151J2K1H03B | C0G | 250 | 150pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E181J1K1H03B | C0G | 250 | 180pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E181J2K1H03B | C0G | 250 | 180pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E221J1K1H03B | C0G | 250 | 220pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E221J2K1H03B | C0G | 250 | 220pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E271J1K1H03B | C0G | 250 | 270pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E271J2K1H03B | C0G | 250 | 270pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E331J1K1H03B | C0G | 250 | 330pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E331J2K1H03B | C0G | 250 | 330pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E391J1K1H03B | C0G | 250 | 390pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E391J2K1H03B | C0G | 250 | 390pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |

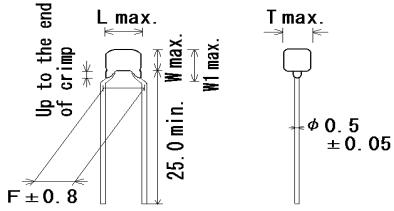
- Inside Crimp
(Lead Style : K*)



Unit : mm

| Customer Part Number | Murata Part Number | T.C. | DC Rated Volt. (V) | Cap. | Cap. Tol. | Dimension (mm) | | | | | Dimension (LxW) Lead Style | Pack qty. (pcs) |
|----------------------|--------------------|------|--------------------|---------|-----------|----------------|-----|-----|-----|------|-------------------------------|-----------------|
| | | | | | | L | W | W1 | F | T | | |
| | RDE5C2E471J1K1H03B | C0G | 250 | 470pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E471J2K1H03B | C0G | 250 | 470pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E561J1K1H03B | C0G | 250 | 560pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E561J2K1H03B | C0G | 250 | 560pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E681J1K1H03B | C0G | 250 | 680pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E681J2K1H03B | C0G | 250 | 680pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E821J1K1H03B | C0G | 250 | 820pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E821J2K1H03B | C0G | 250 | 820pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E102J1K1H03B | C0G | 250 | 1000pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E102J2K1H03B | C0G | 250 | 1000pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E122J1K1H03B | C0G | 250 | 1200pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E122J2K1H03B | C0G | 250 | 1200pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E152J1K1H03B | C0G | 250 | 1500pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E152J2K1H03B | C0G | 250 | 1500pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E182J1K1H03B | C0G | 250 | 1800pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E182J2K1H03B | C0G | 250 | 1800pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E222J1K1H03B | C0G | 250 | 2200pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E222J2K1H03B | C0G | 250 | 2200pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E272J1K1H03B | C0G | 250 | 2700pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E272J2K1H03B | C0G | 250 | 2700pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E332J1K1H03B | C0G | 250 | 3300pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E332J2K1H03B | C0G | 250 | 3300pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E392J1K1H03B | C0G | 250 | 3900pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E392J2K1H03B | C0G | 250 | 3900pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E472J1K1H03B | C0G | 250 | 4700pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E472J2K1H03B | C0G | 250 | 4700pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E562J1K1H03B | C0G | 250 | 5600pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E562J2K1H03B | C0G | 250 | 5600pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E682J1K1H03B | C0G | 250 | 6800pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E682J2K1H03B | C0G | 250 | 6800pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E822J1K1H03B | C0G | 250 | 8200pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E822J2K1H03B | C0G | 250 | 8200pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E103J1K1H03B | C0G | 250 | 10000pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2E103J2K1H03B | C0G | 250 | 10000pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E123J2K1H03B | C0G | 250 | 12000pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E153J2K1H03B | C0G | 250 | 15000pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E183J2K1H03B | C0G | 250 | 18000pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2E223J2K1H03B | C0G | 250 | 22000pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J100J1K1H03B | C0G | 630 | 10pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J100J2K1H03B | C0G | 630 | 10pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |

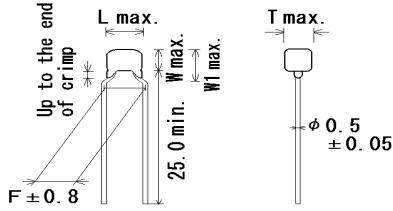
- Inside Crimp
(Lead Style : K*)



Unit : mm

| Customer Part Number | Murata Part Number | T.C. | DC Rated Volt. (V) | Cap. | Cap. Tol. | Dimension (mm) | | | | | Dimension (LxW) Lead Style | Pack qty. (pcs) |
|----------------------|--------------------|------|--------------------|-------|-----------|----------------|-----|-----|-----|------|-------------------------------|-----------------|
| | | | | | | L | W | W1 | F | T | | |
| | RDE5C2J120J1K1H03B | C0G | 630 | 12pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J120J2K1H03B | C0G | 630 | 12pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J150J1K1H03B | C0G | 630 | 15pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J150J2K1H03B | C0G | 630 | 15pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J180J1K1H03B | C0G | 630 | 18pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J180J2K1H03B | C0G | 630 | 18pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J220J1K1H03B | C0G | 630 | 22pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J220J2K1H03B | C0G | 630 | 22pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J270J1K1H03B | C0G | 630 | 27pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J270J2K1H03B | C0G | 630 | 27pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J330J1K1H03B | C0G | 630 | 33pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J330J2K1H03B | C0G | 630 | 33pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J390J1K1H03B | C0G | 630 | 39pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J390J2K1H03B | C0G | 630 | 39pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J470J1K1H03B | C0G | 630 | 47pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J470J2K1H03B | C0G | 630 | 47pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J560J1K1H03B | C0G | 630 | 56pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J560J2K1H03B | C0G | 630 | 56pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J680J1K1H03B | C0G | 630 | 68pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J680J2K1H03B | C0G | 630 | 68pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J820J1K1H03B | C0G | 630 | 82pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J820J2K1H03B | C0G | 630 | 82pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J101J1K1H03B | C0G | 630 | 100pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J101J2K1H03B | C0G | 630 | 100pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J121J1K1H03B | C0G | 630 | 120pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J121J2K1H03B | C0G | 630 | 120pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J151J1K1H03B | C0G | 630 | 150pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J151J2K1H03B | C0G | 630 | 150pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J181J1K1H03B | C0G | 630 | 180pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J181J2K1H03B | C0G | 630 | 180pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J221J1K1H03B | C0G | 630 | 220pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J221J2K1H03B | C0G | 630 | 220pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J271J1K1H03B | C0G | 630 | 270pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J271J2K1H03B | C0G | 630 | 270pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J331J1K1H03B | C0G | 630 | 330pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J331J2K1H03B | C0G | 630 | 330pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J391J1K1H03B | C0G | 630 | 390pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J391J2K1H03B | C0G | 630 | 390pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J471J1K1H03B | C0G | 630 | 470pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J471J2K1H03B | C0G | 630 | 470pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |

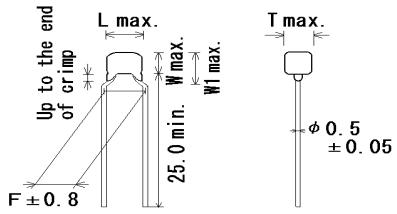
- Inside Crimp
(Lead Style : K*)



Unit : mm

| Customer Part Number | Murata Part Number | T.C. | DC Rated Volt. (V) | Cap. | Cap. Tol. | Dimension (mm) | | | | | Dimension (LxW) Lead Style | Pack qty. (pcs) |
|----------------------|--------------------|------|--------------------|--------|-----------|----------------|-----|-----|-----|------|-------------------------------|-----------------|
| | | | | | | L | W | W1 | F | T | | |
| | RDE5C2J561J1K1H03B | C0G | 630 | 560pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J561J2K1H03B | C0G | 630 | 560pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J681J1K1H03B | C0G | 630 | 680pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J681J2K1H03B | C0G | 630 | 680pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J821J1K1H03B | C0G | 630 | 820pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J821J2K1H03B | C0G | 630 | 820pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J102J1K1H03B | C0G | 630 | 1000pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J102J2K1H03B | C0G | 630 | 1000pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J122J1K1H03B | C0G | 630 | 1200pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J122J2K1H03B | C0G | 630 | 1200pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J152J1K1H03B | C0G | 630 | 1500pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J152J2K1H03B | C0G | 630 | 1500pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J182J1K1H03B | C0G | 630 | 1800pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J182J2K1H03B | C0G | 630 | 1800pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J222J1K1H03B | C0G | 630 | 2200pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 1K1 | 500 |
| | RDE5C2J222J2K1H03B | C0G | 630 | 2200pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J272J2K1H03B | C0G | 630 | 2700pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J332J2K1H03B | C0G | 630 | 3300pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J392J2K1H03B | C0G | 630 | 3900pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C2J472J2K1H03B | C0G | 630 | 4700pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C3A100J2K1H03B | C0G | 1000 | 10pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C3A120J2K1H03B | C0G | 1000 | 12pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C3A150J2K1H03B | C0G | 1000 | 15pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C3A180J2K1H03B | C0G | 1000 | 18pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C3A220J2K1H03B | C0G | 1000 | 22pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C3A270J2K1H03B | C0G | 1000 | 27pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C3A330J2K1H03B | C0G | 1000 | 33pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C3A390J2K1H03B | C0G | 1000 | 39pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C3A470J2K1H03B | C0G | 1000 | 47pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C3A560J2K1H03B | C0G | 1000 | 56pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C3A680J2K1H03B | C0G | 1000 | 68pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C3A820J2K1H03B | C0G | 1000 | 82pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C3A101J2K1H03B | C0G | 1000 | 100pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C3A121J2K1H03B | C0G | 1000 | 120pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C3A151J2K1H03B | C0G | 1000 | 150pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C3A181J2K1H03B | C0G | 1000 | 180pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C3A221J2K1H03B | C0G | 1000 | 220pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C3A271J2K1H03B | C0G | 1000 | 270pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C3A331J2K1H03B | C0G | 1000 | 330pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C3A391J2K1H03B | C0G | 1000 | 390pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |

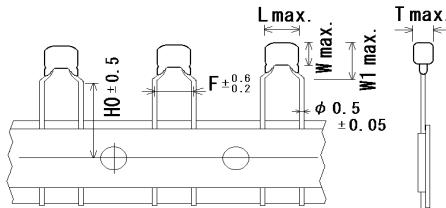
**- Inside Crimp
(Lead Style : K*)**



Unit : mm

| Customer Part Number | Murata Part Number | T.C. | DC Rated Volt. (V) | Cap. | Cap. Tol. | Dimension (mm) | | | | | Dimension (LxW) Lead Style | Pack qty. (pcs) |
|----------------------|--------------------|------|--------------------|--------|-----------|----------------|-----|-----|-----|------|-------------------------------|-----------------|
| | | | | | | L | W | W1 | F | T | | |
| | RDE5C3A471J2K1H03B | C0G | 1000 | 470pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C3A561J2K1H03B | C0G | 1000 | 560pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C3A681J2K1H03B | C0G | 1000 | 680pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C3A821J2K1H03B | C0G | 1000 | 820pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |
| | RDE5C3A102J2K1H03B | C0G | 1000 | 1000pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 2K1 | 500 |

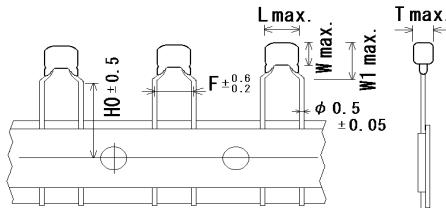
- Inside Crimp Taping
(Lead Style: M*)



Unit : mm

| Customer Part Number | Murata Part Number | T.C. | DC Rated Volt. (V) | Cap. | Cap. Tol. | Dimension (mm) | | | | | | Dimension (LxW) Lead Style | Pack qty. (pcs) |
|----------------------|--------------------|------|--------------------|-------|-----------|----------------|-----|-----|-----|------|------|----------------------------|-----------------|
| | | | | | | L | W | W1 | F | T | H/H0 | | |
| | RDE5C2E100J1M1H03A | C0G | 250 | 10pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E100J2M1H03A | C0G | 250 | 10pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E120J1M1H03A | C0G | 250 | 12pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E120J2M1H03A | C0G | 250 | 12pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E150J1M1H03A | C0G | 250 | 15pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E150J2M1H03A | C0G | 250 | 15pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E180J1M1H03A | C0G | 250 | 18pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E180J2M1H03A | C0G | 250 | 18pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E220J1M1H03A | C0G | 250 | 22pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E220J2M1H03A | C0G | 250 | 22pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E270J1M1H03A | C0G | 250 | 27pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E270J2M1H03A | C0G | 250 | 27pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E330J1M1H03A | C0G | 250 | 33pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E330J2M1H03A | C0G | 250 | 33pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E390J1M1H03A | C0G | 250 | 39pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E390J2M1H03A | C0G | 250 | 39pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E470J1M1H03A | C0G | 250 | 47pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E470J2M1H03A | C0G | 250 | 47pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E560J1M1H03A | C0G | 250 | 56pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E560J2M1H03A | C0G | 250 | 56pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E680J1M1H03A | C0G | 250 | 68pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E680J2M1H03A | C0G | 250 | 68pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E820J1M1H03A | C0G | 250 | 82pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E820J2M1H03A | C0G | 250 | 82pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E101J1M1H03A | C0G | 250 | 100pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E101J2M1H03A | C0G | 250 | 100pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E121J1M1H03A | C0G | 250 | 120pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E121J2M1H03A | C0G | 250 | 120pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E151J1M1H03A | C0G | 250 | 150pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E151J2M1H03A | C0G | 250 | 150pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E181J1M1H03A | C0G | 250 | 180pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E181J2M1H03A | C0G | 250 | 180pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E221J1M1H03A | C0G | 250 | 220pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E221J2M1H03A | C0G | 250 | 220pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E271J1M1H03A | C0G | 250 | 270pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E271J2M1H03A | C0G | 250 | 270pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E331J1M1H03A | C0G | 250 | 330pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E331J2M1H03A | C0G | 250 | 330pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E391J1M1H03A | C0G | 250 | 390pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E391J2M1H03A | C0G | 250 | 390pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |

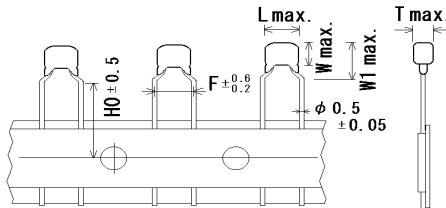
- Inside Crimp Taping
(Lead Style: M*)



Unit : mm

| Customer Part Number | Murata Part Number | T.C. | DC Rated Volt. (V) | Cap. | Cap. Tol. | Dimension (mm) | | | | | | Dimension (LxW) Lead Style | Pack qty. (pcs) |
|----------------------|--------------------|------|--------------------|---------|-----------|----------------|-----|-----|-----|------|------|-------------------------------|--------------------|
| | | | | | | L | W | W1 | F | T | H/H0 | | |
| | RDE5C2E471J1M1H03A | C0G | 250 | 470pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E471J2M1H03A | C0G | 250 | 470pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E561J1M1H03A | C0G | 250 | 560pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E561J2M1H03A | C0G | 250 | 560pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E681J1M1H03A | C0G | 250 | 680pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E681J2M1H03A | C0G | 250 | 680pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E821J1M1H03A | C0G | 250 | 820pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E821J2M1H03A | C0G | 250 | 820pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E102J1M1H03A | C0G | 250 | 1000pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E102J2M1H03A | C0G | 250 | 1000pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E122J1M1H03A | C0G | 250 | 1200pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E122J2M1H03A | C0G | 250 | 1200pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E152J1M1H03A | C0G | 250 | 1500pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E152J2M1H03A | C0G | 250 | 1500pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E182J1M1H03A | C0G | 250 | 1800pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E182J2M1H03A | C0G | 250 | 1800pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E222J1M1H03A | C0G | 250 | 2200pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E222J2M1H03A | C0G | 250 | 2200pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E272J1M1H03A | C0G | 250 | 2700pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E272J2M1H03A | C0G | 250 | 2700pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E332J1M1H03A | C0G | 250 | 3300pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E332J2M1H03A | C0G | 250 | 3300pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E392J1M1H03A | C0G | 250 | 3900pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E392J2M1H03A | C0G | 250 | 3900pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E472J1M1H03A | C0G | 250 | 4700pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E472J2M1H03A | C0G | 250 | 4700pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E562J1M1H03A | C0G | 250 | 5600pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E562J2M1H03A | C0G | 250 | 5600pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E682J1M1H03A | C0G | 250 | 6800pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E682J2M1H03A | C0G | 250 | 6800pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E822J1M1H03A | C0G | 250 | 8200pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E822J2M1H03A | C0G | 250 | 8200pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E103J1M1H03A | C0G | 250 | 10000pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2E103J2M1H03A | C0G | 250 | 10000pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E123J2M1H03A | C0G | 250 | 12000pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E153J2M1H03A | C0G | 250 | 15000pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E183J2M1H03A | C0G | 250 | 18000pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2E223J2M1H03A | C0G | 250 | 22000pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J100J1M1H03A | C0G | 630 | 10pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J100J2M1H03A | C0G | 630 | 10pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |

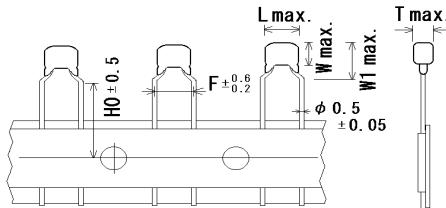
- Inside Crimp Taping
(Lead Style: M*)



Unit : mm

| Customer Part Number | Murata Part Number | T.C. | DC Rated Volt. (V) | Cap. | Cap. Tol. | Dimension (mm) | | | | | | Dimension (LxW) Lead Style | Pack qty. (pcs) |
|----------------------|--------------------|------|--------------------|-------|-----------|----------------|-----|-----|-----|------|------|-------------------------------|--------------------|
| | | | | | | L | W | W1 | F | T | H/H0 | | |
| | RDE5C2J120J1M1H03A | C0G | 630 | 12pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J120J2M1H03A | C0G | 630 | 12pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J150J1M1H03A | C0G | 630 | 15pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J150J2M1H03A | C0G | 630 | 15pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J180J1M1H03A | C0G | 630 | 18pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J180J2M1H03A | C0G | 630 | 18pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J220J1M1H03A | C0G | 630 | 22pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J220J2M1H03A | C0G | 630 | 22pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J270J1M1H03A | C0G | 630 | 27pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J270J2M1H03A | C0G | 630 | 27pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J330J1M1H03A | C0G | 630 | 33pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J330J2M1H03A | C0G | 630 | 33pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J390J1M1H03A | C0G | 630 | 39pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J390J2M1H03A | C0G | 630 | 39pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J470J1M1H03A | C0G | 630 | 47pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J470J2M1H03A | C0G | 630 | 47pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J560J1M1H03A | C0G | 630 | 56pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J560J2M1H03A | C0G | 630 | 56pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J680J1M1H03A | C0G | 630 | 68pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J680J2M1H03A | C0G | 630 | 68pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J820J1M1H03A | C0G | 630 | 82pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J820J2M1H03A | C0G | 630 | 82pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J101J1M1H03A | C0G | 630 | 100pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J101J2M1H03A | C0G | 630 | 100pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J121J1M1H03A | C0G | 630 | 120pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J121J2M1H03A | C0G | 630 | 120pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J151J1M1H03A | C0G | 630 | 150pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J151J2M1H03A | C0G | 630 | 150pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J181J1M1H03A | C0G | 630 | 180pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J181J2M1H03A | C0G | 630 | 180pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J221J1M1H03A | C0G | 630 | 220pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J221J2M1H03A | C0G | 630 | 220pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J271J1M1H03A | C0G | 630 | 270pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J271J2M1H03A | C0G | 630 | 270pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J331J1M1H03A | C0G | 630 | 330pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J331J2M1H03A | C0G | 630 | 330pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J391J1M1H03A | C0G | 630 | 390pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J391J2M1H03A | C0G | 630 | 390pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J471J1M1H03A | C0G | 630 | 470pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J471J2M1H03A | C0G | 630 | 470pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |

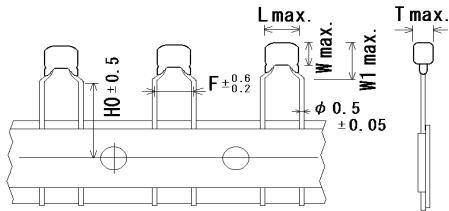
- Inside Crimp Taping
(Lead Style: M*)



Unit : mm

| Customer Part Number | Murata Part Number | T.C. | DC Rated Volt. (V) | Cap. | Cap. Tol. | Dimension (mm) | | | | | | Dimension (LxW) Lead Style | Pack qty. (pcs) |
|----------------------|--------------------|------|--------------------|--------|-----------|----------------|-----|-----|-----|------|------|----------------------------|-----------------|
| | | | | | | L | W | W1 | F | T | H/H0 | | |
| | RDE5C2J561J1M1H03A | C0G | 630 | 560pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J561J2M1H03A | C0G | 630 | 560pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J681J1M1H03A | C0G | 630 | 680pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J681J2M1H03A | C0G | 630 | 680pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J821J1M1H03A | C0G | 630 | 820pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J821J2M1H03A | C0G | 630 | 820pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J102J1M1H03A | C0G | 630 | 1000pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J102J2M1H03A | C0G | 630 | 1000pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J122J1M1H03A | C0G | 630 | 1200pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J122J2M1H03A | C0G | 630 | 1200pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J152J1M1H03A | C0G | 630 | 1500pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J152J2M1H03A | C0G | 630 | 1500pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J182J1M1H03A | C0G | 630 | 1800pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J182J2M1H03A | C0G | 630 | 1800pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J222J1M1H03A | C0G | 630 | 2200pF | ±5% | 4.5 | 3.5 | 5.0 | 5.0 | 3.15 | 16.0 | 1M1 | 2000 |
| | RDE5C2J222J2M1H03A | C0G | 630 | 2200pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J272J2M1H03A | C0G | 630 | 2700pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J332J2M1H03A | C0G | 630 | 3300pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J392J2M1H03A | C0G | 630 | 3900pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C2J472J2M1H03A | C0G | 630 | 4700pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C3A100J2M1H03A | C0G | 1000 | 10pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C3A120J2M1H03A | C0G | 1000 | 12pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C3A150J2M1H03A | C0G | 1000 | 15pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C3A180J2M1H03A | C0G | 1000 | 18pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C3A220J2M1H03A | C0G | 1000 | 22pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C3A270J2M1H03A | C0G | 1000 | 27pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C3A330J2M1H03A | C0G | 1000 | 33pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C3A390J2M1H03A | C0G | 1000 | 39pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C3A470J2M1H03A | C0G | 1000 | 47pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C3A560J2M1H03A | C0G | 1000 | 56pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C3A680J2M1H03A | C0G | 1000 | 68pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C3A820J2M1H03A | C0G | 1000 | 82pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C3A101J2M1H03A | C0G | 1000 | 100pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C3A121J2M1H03A | C0G | 1000 | 120pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C3A151J2M1H03A | C0G | 1000 | 150pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C3A181J2M1H03A | C0G | 1000 | 180pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C3A221J2M1H03A | C0G | 1000 | 220pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C3A271J2M1H03A | C0G | 1000 | 270pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C3A331J2M1H03A | C0G | 1000 | 330pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C3A391J2M1H03A | C0G | 1000 | 390pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |

- Inside Crimp Taping
(Lead Style: M*)



Unit : mm

| Customer Part Number | Murata Part Number | T.C. | DC Rated Volt. (V) | Cap. | Cap. Tol. | Dimension (mm) | | | | | | Dimension (LxW) Lead Style | Pack qty. (pcs) |
|----------------------|--------------------|------|--------------------|--------|-----------|----------------|-----|-----|-----|------|------|-------------------------------|--------------------|
| | | | | | | L | W | W1 | F | T | H/H0 | | |
| | RDE5C3A471J2M1H03A | C0G | 1000 | 470pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C3A561J2M1H03A | C0G | 1000 | 560pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C3A681J2M1H03A | C0G | 1000 | 680pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C3A821J2M1H03A | C0G | 1000 | 820pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |
| | RDE5C3A102J2M1H03A | C0G | 1000 | 1000pF | ±5% | 5.5 | 4.0 | 6.0 | 5.0 | 3.15 | 16.0 | 2M1 | 2000 |

Reference only

5.SPECIFICATIONS AND TEST METHODS

| No | Item | | Specification | Test Method | | | | | | | | | | | | |
|-----------------|---|---------------------|---|--|---------------|-----------------|---------|---------------------------|----------|---------------------------|------------|---------------------------|------------------|--------------|--------|--------|
| 1 | Appearance | | No defects or abnormalities. | Visual inspection. | | | | | | | | | | | | |
| 2 | Dimension and Marking | | Within the specified dimensions and Marking. | Visual inspection, Using Caliper. | | | | | | | | | | | | |
| 3 | Dielectric Strength | Between Terminals | No defects or abnormalities. | The capacitor should not be damaged when voltage of in Table is applied between the terminations for 1 to 5 seconds. (Charge/Discharge current $\leq 50\text{mA}$.) | | | | | | | | | | | | |
| | | Body Insulation | No defects or abnormalities. | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th>Rated voltage</th> <th>Test voltage</th> </tr> <tr> <td>DC250V</td> <td>200% of the rated voltage</td> </tr> <tr> <td>DC630V</td> <td>150% of the rated voltage</td> </tr> <tr> <td>DC1kV</td> <td>130% of the rated voltage</td> </tr> </table> <p>The capacitor is placed in a container with metal balls of 1mm diameter so that each terminal, short-circuit, is kept approximately 2mm from the balls, and voltage in Table is impressed for 1 to 5 seconds between capacitor terminals and metal balls. (Charge/Discharge current $\leq 50\text{mA}$.)</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th>Rated voltage</th> <th>Test voltage</th> </tr> <tr> <td>DC250V</td> <td>DC500V</td> </tr> <tr> <td>DC630V·DC1kV</td> <td>DC1300V</td> </tr> </table> | Rated voltage | Test voltage | DC250V | 200% of the rated voltage | DC630V | 150% of the rated voltage | DC1kV | 130% of the rated voltage | Rated voltage | Test voltage | DC250V | DC500V |
| Rated voltage | Test voltage | | | | | | | | | | | | | | | |
| DC250V | 200% of the rated voltage | | | | | | | | | | | | | | | |
| DC630V | 150% of the rated voltage | | | | | | | | | | | | | | | |
| DC1kV | 130% of the rated voltage | | | | | | | | | | | | | | | |
| Rated voltage | Test voltage | | | | | | | | | | | | | | | |
| DC250V | DC500V | | | | | | | | | | | | | | | |
| DC630V·DC1kV | DC1300V | | | | | | | | | | | | | | | |
| 4 | Insulation Resistance (I.R.) | Between Terminals | 10,000M Ω or 500M Ω · μF min. (Whichever is smaller) | The insulation resistance should be measured with DC500±50V (DC250±25V in case of rated voltage : DC250V) at normal temperature and humidity and within 2 minutes of charging. (Charge/Discharge current $\leq 50\text{mA}$.) | | | | | | | | | | | | |
| 5 | Capacitance | | Within the specified tolerance. | The capacitance, Q should be measured at 25°C at the frequency and voltage shown in the table. | | | | | | | | | | | | |
| 6 | Q | | 30pF \leq C : Q \geq 1,000 30pF > C : Q \geq 400+20C C : Nominal Capacitance (pF) | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th>Nominal Cap.</th> <th>Frequency</th> <th>Voltage</th> </tr> <tr> <td>C \leq 1000pF</td> <td>1±0.2MHz</td> <td>AC0.5 to 5V(r.m.s.)</td> </tr> <tr> <td>C > 1000pF</td> <td>1±0.2kHz</td> <td>AC1±0.2V(r.m.s.)</td> </tr> </table> | Nominal Cap. | Frequency | Voltage | C \leq 1000pF | 1±0.2MHz | AC0.5 to 5V(r.m.s.) | C > 1000pF | 1±0.2kHz | AC1±0.2V(r.m.s.) | | | |
| Nominal Cap. | Frequency | Voltage | | | | | | | | | | | | | | |
| C \leq 1000pF | 1±0.2MHz | AC0.5 to 5V(r.m.s.) | | | | | | | | | | | | | | |
| C > 1000pF | 1±0.2kHz | AC1±0.2V(r.m.s.) | | | | | | | | | | | | | | |
| 7 | Capacitance Temperature Characteristics | | Within the specified Tolerance. 25°C to 125°C : 0±30ppm/°C -55°C to 25°C : 0+30/-72ppm/°C | <p>The capacitance change should be measured after 5 minutes at each specified temperature stage. The temperature coefficient is determined using the capacitance measured in step 3 as a reference. When cycling the temperature sequentially from step 1 through 5 (-55°C to 125°C) the capacitance should be within the specified tolerance for the temperature coefficient.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th>Step</th> <th>Temperature(°C)</th> </tr> <tr> <td>1</td> <td>25±2</td> </tr> <tr> <td>2</td> <td>-55±3</td> </tr> <tr> <td>3</td> <td>25±2</td> </tr> <tr> <td>4</td> <td>125±3</td> </tr> <tr> <td>5</td> <td>25±2</td> </tr> </table> | Step | Temperature(°C) | 1 | 25±2 | 2 | -55±3 | 3 | 25±2 | 4 | 125±3 | 5 | 25±2 |
| Step | Temperature(°C) | | | | | | | | | | | | | | | |
| 1 | 25±2 | | | | | | | | | | | | | | | |
| 2 | -55±3 | | | | | | | | | | | | | | | |
| 3 | 25±2 | | | | | | | | | | | | | | | |
| 4 | 125±3 | | | | | | | | | | | | | | | |
| 5 | 25±2 | | | | | | | | | | | | | | | |
| 8 | Terminal Strength | Tensile Strength | Termination not to be broken or loosened. | As in the figure, fix the capacitor body, apply the force gradually to each lead in the radial direction of the capacitor until reaching 10N and then keep applied the force for 10±1 seconds.  | | | | | | | | | | | | |
| | | Bending Strength | Termination not to be broken or loosened. | Each lead wire should be subjected to a force of 2.5N and then be bent 90° at the point of egress in one direction. Each wire is then returned to the original position and bent 90° in the opposite direction at the rate of one bend per 2 to 3 seconds. | | | | | | | | | | | | |
| 9 | Vibration Resistance | Appearance | No defects or abnormalities. | The capacitor should be subjected to a simple harmonic motion having a total amplitude of 1.5mm, the frequency being varied uniformly between the approximate limits of 10Hz and 55Hz. The frequency range, from 10Hz to 55Hz and return to 10Hz, shall be traversed in approximately 1 minute. This motion shall be applied for a period of 2 hours in each 3 mutually perpendicular directions (total of 6 hours). | | | | | | | | | | | | |
| | | Capacitance | Within the specified tolerance. | | | | | | | | | | | | | |
| | | Q | 30pF \leq C : Q \geq 1,000 30pF > C : Q \geq 400+20C C : Nominal Capacitance (pF) | | | | | | | | | | | | | |

Reference only

| No. | Item | Specification | Test Method |
|------|--|--|---|
| 10 | Solderability of Lead | Solder is deposited on unintermittently immersed portion in axial direction covering 3/4 or more in circumferential direction of lead wires. | The terminal of capacitor is dipped into a solution of ethanol (JIS K 8101) and rosin (JIS K 5902) (25% rosin in weight proportion). Immerse in solder solution for 2 ± 0.5 seconds. In both cases the depth of dipping is up to about 1.5 to 2mm from the terminal body. Temp. of solder : $245\pm5^\circ\text{C}$ Lead Free Solder (Sn-3.0Ag-0.5Cu) $235\pm5^\circ\text{C}$ H60A or H63A Eutectic Solder |
| 11-1 | Resistance to Soldering Heat (Non-Preheat) | Appearance | No defects or abnormalities. |
| | | Capacitance Change | Within $\pm2.5\%$ or $\pm0.25\text{pF}$ (Whichever is larger) |
| | | Dielectric Strength (Between terminals) | No defects. |
| 11-2 | Resistance to Soldering Heat (On-Preheat) | Appearance | No defects or abnormalities. |
| | | Capacitance Change | Within $\pm2.5\%$ or $\pm0.25\text{pF}$ (Whichever is larger) |
| | | Dielectric Strength (Between terminals) | No defects. |
| 11-3 | Resistance to Soldering Heat (soldering iron method) | Appearance | No defects or abnormalities. |
| | | Capacitance Change | Within $\pm2.5\%$ or $\pm0.25\text{pF}$ (Whichever is larger) |
| | | Dielectric Strength (Between terminals) | No defects. |
| 12 | Temperature Cycle | Appearance | No defects or abnormalities. |
| | | Capacitance Change | Within $\pm5\%$ or $\pm0.5\text{pF}$ (Whichever is larger) |
| | | Q | $30\text{pF} \leq C : Q \geq 350$ $10\text{pF} \leq C < 30\text{pF} : Q \geq 275+5C/2$ $10\text{pF} > C : Q \geq 200+10C$ C : Nominal Capacitance (pF) |
| | | I.R. | 1,000MΩ or $50\text{M}\Omega \cdot \mu\text{F}$ min. (Whichever is smaller) |
| | | Dielectric Strength (Between Terminals) | No defects or abnormalities. |
| 13 | Humidity (Steady State) | Appearance | No defects or abnormalities. |
| | | Capacitance Change | Within $\pm5\%$ or $\pm0.5\text{pF}$ (Whichever is larger) |
| | | Q | $30\text{pF} \leq C : Q \geq 350$ $10\text{pF} \leq C < 30\text{pF} : Q \geq 275+5C/2$ $10\text{pF} > C : Q \geq 200+10C$ C : Nominal Capacitance (pF) |
| | | I.R. | 1,000MΩ or $50\text{M}\Omega \cdot \mu\text{F}$ min. (Whichever is smaller) |
| | | Set the capacitor at $40\pm2^\circ\text{C}$ and relative humidity 90 to 95% for $500+24/-0$ hours. Remove and set for 24 ± 2 hours at *room condition, then measure. | |

* "room condition" Temperature : 15 to 35°C , Relative humidity : 45 to 75%, Atmosphere pressure : 86 to 106kPa

Reference only

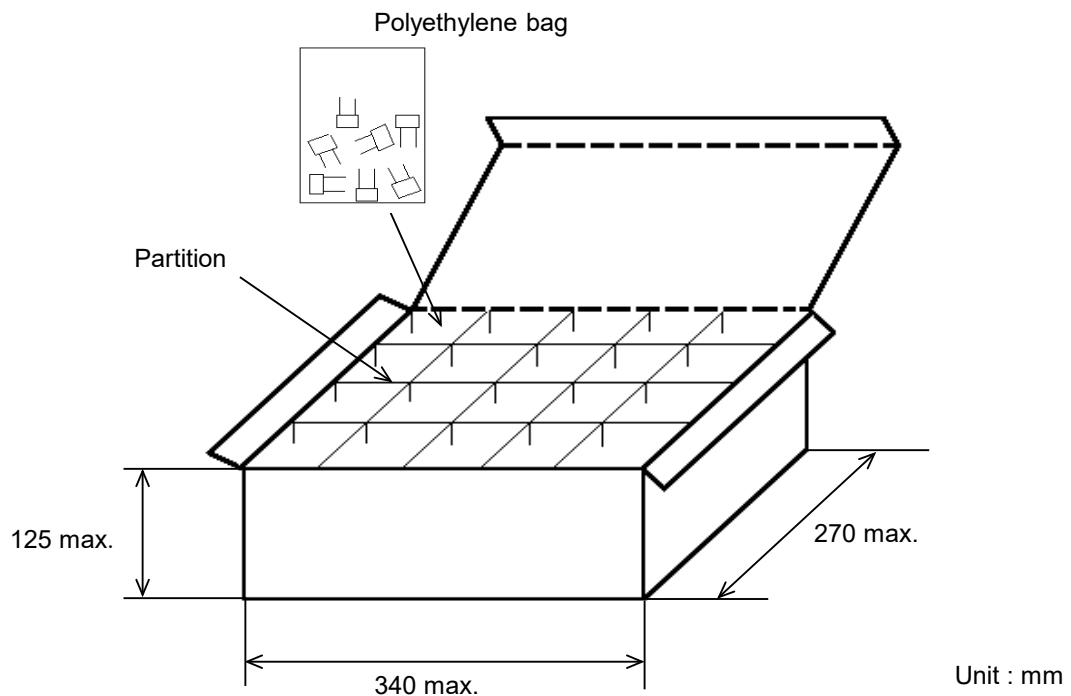
| No. | Item | | Specification | Test Method |
|-----|-----------------------|--------------------|---|---|
| 14 | Humidity Load | Appearance | No defects or abnormalities. | Apply the rated voltage at $40 \pm 2^\circ\text{C}$ and relative humidity of 90 to 95% for 500+24/-0 hours. Remove and set for 24 ± 2 hours at *room condition, then measure. (Charge/Discharge current $\leq 50\text{mA}$.) |
| | | Capacitance Change | Within $\pm 7.5\%$ or $\pm 0.75\text{pF}$ (Whichever is larger) | |
| | | Q | $30\text{pF} \leq C : Q \geq 200$ $30\text{pF} > C : Q \geq 100+10/3$ C : Nominal Capacitance (pF) | |
| | | I.R. | $500\text{M}\Omega$ or $25\text{M}\Omega \cdot \mu\text{F}$ min. (Whichever is smaller) | |
| 15 | High Temperature Load | Appearance | No defects or abnormalities. | Apply voltage in Table at the maximum operating temperature $\pm 3^\circ\text{C}$ for 1000+48/-0 hours. Remove and set for 24 ± 2 hours at *room condition, then measure. (Charge/Discharge current $\leq 50\text{mA}$.) |
| | | Capacitance Change | Within $\pm 3\%$ or $\pm 0.3\text{pF}$ (Whichever is larger) | |
| | | Q | $30\text{pF} \leq C : Q \geq 350$ $10\text{pF} \leq C < 30\text{pF} : Q \geq 275+5C/2$ $10\text{pF} > C : Q \geq 200+10C$ C : Nominal Capacitance (pF) | |
| | | I.R. | $1,000\text{M}\Omega$ or $50\text{M}\Omega \cdot \mu\text{F}$ min. (Whichever is smaller) | |
| 16 | Solvent Resistance | Appearance | No defects or abnormalities. | The capacitor should be fully immersed, unagitated, in reagent at 20 to 25°C for 30 ± 5 seconds and then remove gently. Marking on the surface of the capacitor shall immediately be visually examined. Regent : Isopropyl alcohol |
| | | Marking | Legible | |

* "room condition" Temperature : 15 to 35°C , Relative humidity : 45 to 75%, Atmosphere pressure : 86 to 106kPa

6. Packing specification

- Bulk type (Packing style code : B)

The size of packing case and packing way



The number of packing = ^{*1} Packing quantity × ^{*2} n

^{*1} : Please refer to [Part number list].

^{*2} : Standard n = 20 (bag)

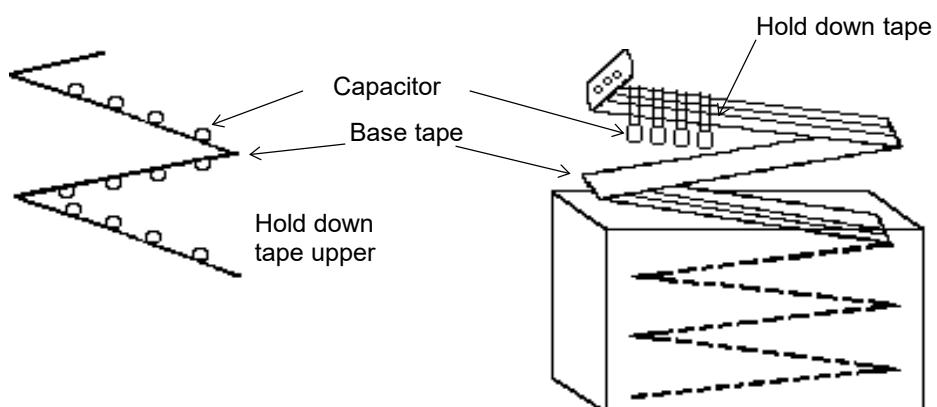
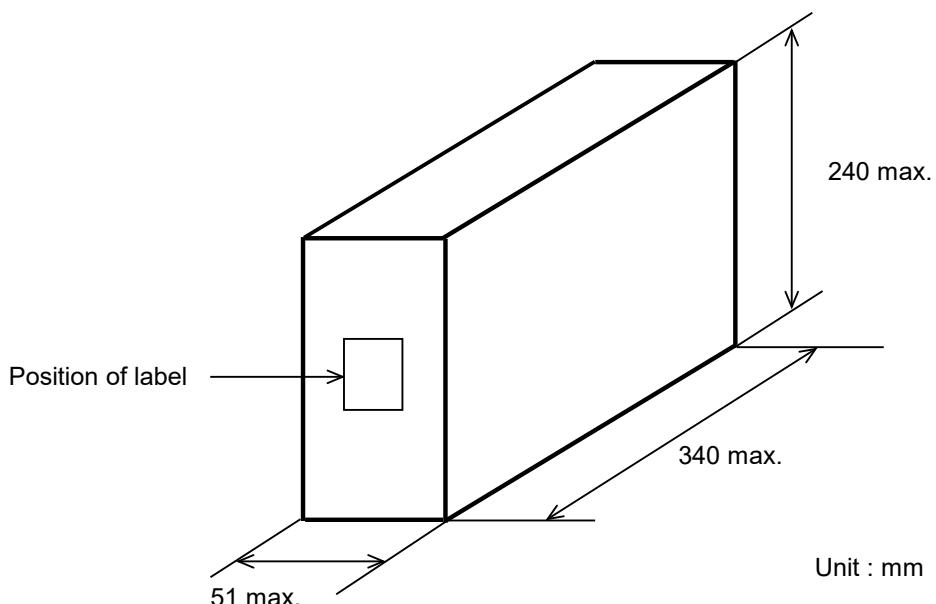
Note)

The outer package and the number of outer packing be changed by the order getting amount.

•Ammo pack taping type (Packing style code : A)

A crease is made every 25 pitches, and the tape with capacitors is packed zigzag into a case.
When body of the capacitor is piled on other body under it.

The size of packing case and packing way

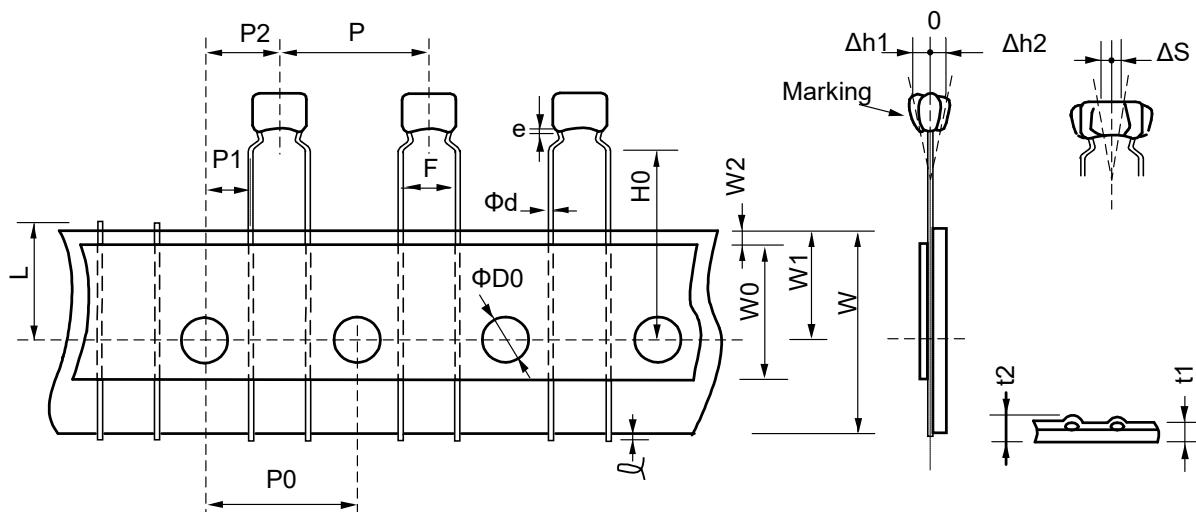


7. Taping specification

7-1. Dimension of capacitors on tape

Inside crimp taping type < Lead code : M1 >

Pitch of component 12.7mm / Lead spacing 5.0mm

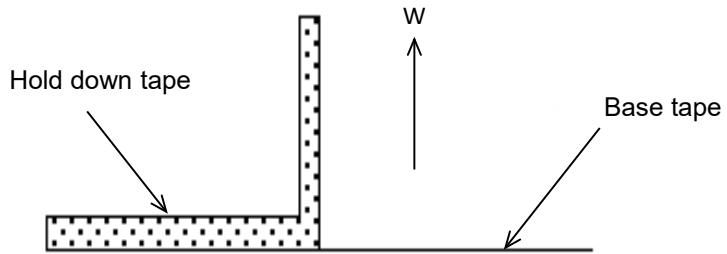


Unit : mm

| Item | Code | Dimensions | Remarks |
|--|------|-------------------------------|---------------------------------------|
| Pitch of component | P | 12.7+/-1.0 | |
| Pitch of sprocket hole | P0 | 12.7+/-0.2 | |
| Lead spacing | F | 5.0+0.6/-0.2 | |
| Length from hole center to component center | P2 | 6.35+/-1.3 | Deviation of progress direction |
| Length from hole center to lead | P1 | 3.85+/-0.7 | |
| Deviation along tape, left or right defect | ΔS | 0+/-2.0 | They include deviation by lead bend |
| Carrier tape width | W | 18.0+/-0.5 | |
| Position of sprocket hole | W1 | 9.0+0/-0.5 | Deviation of tape width direction |
| Lead distance between reference and bottom plane | H0 | 16.0+/-0.5 | |
| Protrusion length | l | 0.5 max. | |
| Diameter of sprocket hole | ΦD0 | 4.0+/-0.1 | |
| Lead diameter | Φd | 0.5+/-0.05 | |
| Total tape thickness | t1 | 0.6+/-0.3 | They include hold down tape thickness |
| Total thickness of tape and lead wire | t2 | 1.5 max. | |
| Deviation across tape | Δh1 | 2.0 max. (Dimension code : W) | |
| | Δh2 | 1.0 max. (except as above) | |
| Portion to cut in case of defect | L | 11.0+0/-1.0 | |
| Hold down tape width | W0 | 9.5 min. | |
| Hold down tape position | W2 | 1.5+/-1.5 | |
| Coating extension on lead | e | Up to the end of crimp | |

7-2. Splicing way of tape

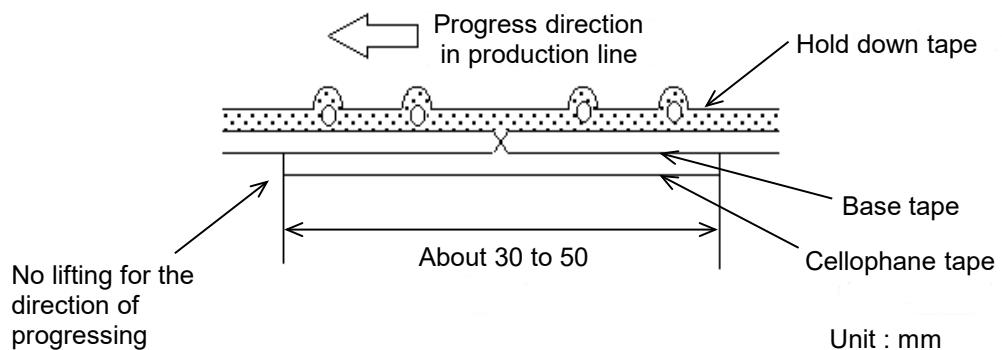
- Adhesive force of tape is over 3N at test condition as below.



- Splicing of tape

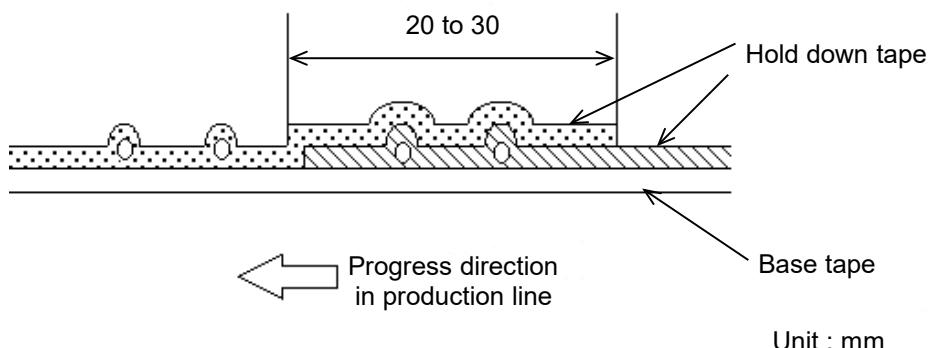
a) When base tape is spliced

- Base tape shall be spliced by cellophane tape.
(Total tape thickness shall be less than 1.05mm.)



b) When hold down tape is spliced

- Hold down tape shall be spliced with overlapping.
(Total tape thickness shall be less than 1.05mm.)



c) When both tape are spliced

- Base tape and hold down tape shall be spliced with splicing tape.

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[RDE5C2E221J2M1H03A](#) [RDE5C3A102J2M1H03A](#) [RDE5C2J122J2M1H03A](#) [RDE5C2J121J2M1H03A](#)
[RDE5C2J122J2K1H03B](#) [RDE5C3A151J2M1H03A](#) [RDE5C2E332J2K1H03B](#) [RDE5C2E272J2K1H03B](#)
[RDE5C2E102J2K1H03B](#) [RDE5C2J471J2M1H03A](#) [RDE5C3A391J2M1H03A](#) [RDE5C2J102J2K1H03B](#)
[RDE5C3A221J2K1H03B](#) [RDE5C2E680J2K1H03B](#) [RDE5C3A331J2K1H03B](#) [RDE5C2J182J2K1H03B](#)
[RDE5C2E122J2M1H03A](#) [RDE5C2J222J2M1H03A](#) [RDE5C2E151J2M1H03A](#) [RDE5C2J271J2M1H03A](#)
[RDE5C2J470J2M1H03A](#) [RDE5C2E822J2K1H03B](#) [RDE5C2J221J2K1H03B](#) [RDE5C2J390J2K1H03B](#)
[RDE5C2E682J2K1H03B](#) [RDE5C2E220J2K1H03B](#) [RDE5C2J152J2M1H03A](#) [RDE5C3A331J2M1H03A](#)
[RDE5C2J561J2M1H03A](#) [RDE5C2E181J2K1H03B](#) [RDE5C2J100J2M1H03A](#) [RDE5C2E122J2K1H03B](#)
[RDE5C2E180J2K1H03B](#) [RDE5C2E123J2M1H03A](#) [RDE5C2J820J2K1H03B](#) [RDE5C2E100J2M1H03A](#)
[RDE5C3A471J2M1H03A](#) [RDE5C3A681J2K1H03B](#) [RDE5C2J271J2K1H03B](#) [RDE5C2J101J2M1H03A](#)
[RDE5C2E222J2M1H03A](#) [RDE5C2E270J2M1H03A](#) [RDE5C2J181J2M1H03A](#) [RDE5C2J150J2M1H03A](#)
[RDE5C2E153J2M1H03A](#) [RDE5C2J272J2M1H03A](#) [RDE5C2E822J2M1H03A](#) [RDE5C3A181J2M1H03A](#)
[RDE5C2J680J2M1H03A](#) [RDE5C2J272J2K1H03B](#) [RDE5C2J332J2M1H03A](#) [RDE5C2E820J2M1H03A](#)
[RDE5C2E561J2K1H03B](#) [RDE5C2E820J2K1H03B](#) [RDE5C2E392J2M1H03A](#) [RDE5C2E180J2M1H03A](#)
[RDE5C2J330J2M1H03A](#) [RDE5C2E472J2K1H03B](#) [RDE5C2E681J2M1H03A](#) [RDE5C2E182J2M1H03A](#)
[RDE5C2E150J2K1H03B](#) [RDE5C2E562J2K1H03B](#) [RDE5C3A821J2K1H03B](#) [RDE5C3A121J2K1H03B](#)
[RDE5C2J391J2M1H03A](#) [RDE5C2E100J2K1H03B](#) [RDE5C2E272J2M1H03A](#) [RDE5C2J180J2M1H03A](#)
[RDE5C2J270J2K1H03B](#) [RDE5C3A561J2K1H03B](#) [RDE5C2E682J2M1H03A](#) [RDE5C2E153J2K1H03B](#)
[RDE5C2J681J2K1H03B](#) [RDE5C2E182J2K1H03B](#) [RDE5C2E103J2K1H03B](#) [RDE5C2E471J2K1H03B](#)
[RDE5C2E560J2K1H03B](#) [RDE5C3A271J2K1H03B](#) [RDE5C2J330J2K1H03B](#) [RDE5C2E681J2K1H03B](#)
[RDE5C2J681J2M1H03A](#) [RDE5C2E120J2M1H03A](#) [RDE5C2J152J2K1H03B](#) [RDE5C2E562J2M1H03A](#)
[RDE5C2E271J2K1H03B](#) [RDE5C3A471J2K1H03B](#) [RDE5C2J222J2K1H03B](#) [RDE5C2E152J2K1H03B](#)
[RDE5C2E270J2K1H03B](#) [RDE5C3A151J2K1H03B](#) [RDE5C2J220J2K1H03B](#) [RDE5C2J150J2K1H03B](#)
[RDE5C2E680J2M1H03A](#) [RDE5C2E821J2K1H03B](#) [RDE5C2J331J2K1H03B](#) [RDE5C2J680J2K1H03B](#)
[RDE5C3A102J2K1H03B](#) [RDE5C2J270J2M1H03A](#) [RDE5C2J220J2M1H03A](#) [RDE5C2J181J2K1H03B](#)