imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

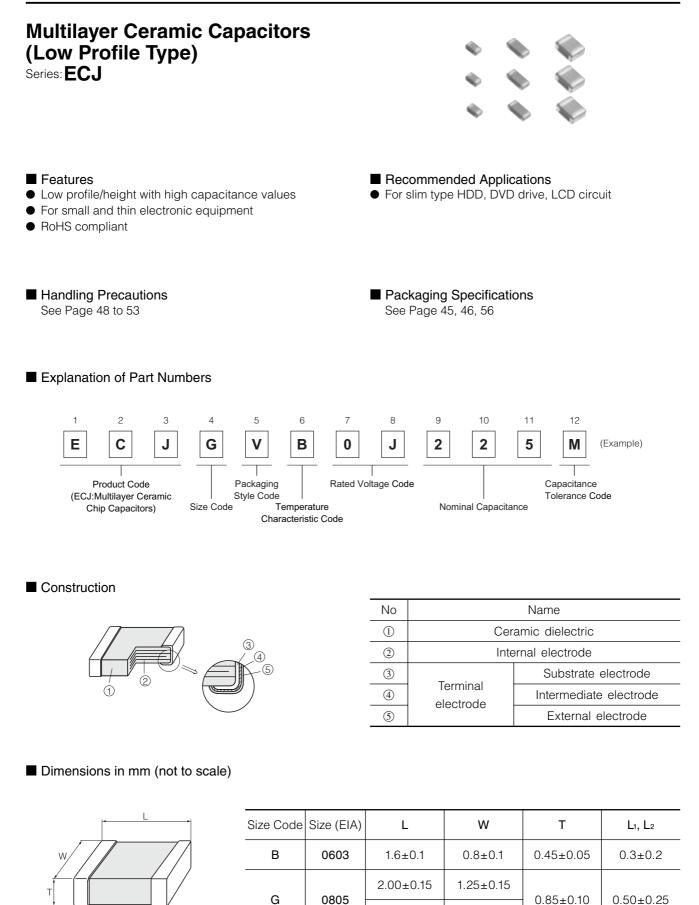


Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Panasonic



Н

La

L1

0.6±0.3

1206

2.0±0.2

3.2±0.2

 1.25 ± 0.20

1.6±0.2

 0.85 ± 0.10

Quantity pcs reel

Packaging Styles and Standard Packaging Quantities

| | | | | | adamity i pool i ool |
|------------|-------------------|--------------------------------|--------|--------|----------------------|
| Packaging | | Size | | 0805 | 1206 |
| Style Code | Packaging Styles | Thickness (mm) | T=0.45 | T=0.85 | T=0.85 |
| V | <i>ø</i> 180 reel | Paper taping (Pitch : 4 mm) | 4,000 | 4,000 | 4,000 |

Temperature Characteristics

• Class 2

| Temperature Characteristic Code | Temperature Characteristics | Capacitance Change | Measurement Temperature Range | Reference Temperature |
|------------------------------------|--------------------------------|--------------------|----------------------------------|-----------------------|
| В | X5R | ±15 % | –55 to 85 °C | 25 °C |

Rated Voltage

| Rated Voltage Code | 1E | 1C | 1A | OJ |
|--------------------|---------|---------|---------|----------|
| Rated Voltage | DC 25 V | DC 16 V | DC 10 V | DC 6.3 V |

Nominal Capacitance

| EX. | 105 | 225 | 475 | 106 |
|---------------------|--------------|--------------|--------------|---------------|
| Nominal Capacitance | 1,000,000 pF | 2,200,000 pF | 4,700,000 pF | 10,000,000 pF |
| | (1 μF) | (2.2 µF) | (4.7 μF) | (10 μF) |

Capacitance Tolerance

| Class | Temperature Characteristics | Capacitance Tolerance Code | Capacitance Tolerance | | |
|-------|-----------------------------|-------------------------------|-----------------------|--|--|
| | VED | K | ±10 % | | |
| 2 | X5R | М | ±20 % | | |

Specifications and Testing Methods

| Item | Specifications | Test Method | | | | |
|--|--|--|--|--|--|--|
| Operating Temperature Range | –55 to 85 °C | | | | | |
| Dielectric Withstanding Voltage | No dielectric breakdown and /or damage | Test voltage:Rated voltage x250 % Duration : 1 to 5 s. Charge/discharge current: 50 mA max. | | | | |
| Insulation Resistance (I.R.) | 500/C (M Ω) min. Note : DC10V, min. ; 100/C (M Ω) min. (C: Nominal capacitance in μ F) | Measuring voltage : Rated voltage Duration : 60 ± 5 s Charge/discharge current: 50 mA max. | | | | |
| Capacitance Dissipation Factor (tan δ) | Within the specified tolerance 0.2 max. Please see the technical reports for details. | Measuring temperature: 20±2 °C Preconditioning: The capacitors shall be kept in temperature of 150 +0 / -10 °C for 1 hour and subjected to standard condition* 48±4 hours, before initial measurement. | | | | |
| | | $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$ | | | | |

Standard condition : Temperature 15 to 35 °C, Relative humidity 45 to 75 % For further information, see the technical specifications.

Standard Products for EIA "0603", Taped Version

Class 2

Temperature Characteristic Code : B (Temperature Characteristics : X5R)

| Rate | d voltage | DC 10 V | / | | DC 6.3 V | | | |
|--------------------------|--------------------------|-------------|-------------------|-----------------------|--------------|-------------------|-----------------------|--|
| Capaci- tance (µF) | Capacitance Tolerance | Part No. | Dim. T (mm) | Temp. Char. X5R | Part No. | Dim. T (mm) | Temp. Char. X5R | |
| 1 | ±10 % (K) or | ECJBVB1A105 | 0.45 | 0 | ECJBVB0J105 | 0.45 | 0 | |
| 2.2 | ±20 % (M) | | | | ECJBVB0J225M | 0.45 | 0 | |

□: Capacitance tolerance code : "□" for "K" or "M'

Standard packaging quantity of Packaging Style Code "V" (T = 0.45 mm): 4,000 pcs./reel Avoid flow soldering

Standard Products for EIA "0805", Taped Version

Class 2

Temperature Characteristic Code : B (Temperature Characteristics : X5R)

| Rateo | d voltage | DC 25 \ | / | | DC 16 V | / | | DC 10 V | / | | DC 6.3 | / | |
|--------------------------|--------------------------|-------------|------|-----------------------|-------------|-------------------|-----------------------|-------------|-------------------|-----------------------|-------------|-------------------|-------|
| Capaci- tance (µF) | Capacitance Tolerance | Part No | | Temp. Char. X5R | Part No. | Dim. T (mm) | Temp. Char. X5R | Part No. | Dim. T (mm) | Temp. Char. X5R | Part No. | Dim. T (mm) | Char. |
| 2.2 | ±10 % (K) | ECJGVB1E225 | 0.85 | 0 | ECJGVB1C225 | 0.85 | 0 | ECJGVB1A225 | 0.85 | 0 | | | |
| 4.7 | or | | | | | | | ECJGVB1A475 | 0.85 | 0 | ECJGVB0J475 | 0.85 | 0 |
| 10 | ±20 % (M) | | | | | | | ECJGVB1A106 | 0.85* | 0 | ECJGVB0J106 | 0.85* | 0 |

□: Capacitance tolerance code : "□" for "K" or "M" Dimensional tolerance of L, W, T: L/W: ± 0.15 mm / T: ± 0.1 mm for no mark, L/W: ± 0.2 mm / T: ± 0.1 mm for "★" mark Standard packaging quantity of Packaging Style Code "V" (T = 0.85 mm): 4,000 pcs./reel

Avoid flow soldering.

Standard Products for EIA "1206", Taped Version

Class 2

Temperature Characteristic Code : B (Temperature Characteristics : X5R)

| Rateo | Rated voltage DC 25 V | | DC 16 V | | DC 10 V | | | DC 6.3 V | | | | | |
|--------------------------|--------------------------|--------------|-------------------|-----------------------|--------------|------|-----------------------|--------------|-------------------|-----------------------|--------------|-------------------|-----------------------|
| Capaci- tance (µF) | Capacitance Tolerance | Part No | Dim. T (mm) | Temp. Char. X5R | Part No. | | Temp. Char. X5R | Part No. | Dim. T (mm) | Temp. Char. X5R | Part No. | Dim. T (mm) | Temp. Char. X5R |
| 4.7 | ±10 % (K) | ECJHVB1E475M | 0.85 | 0 | ECJHVB1C475M | 0.85 | 0 | | | | | | |
| 10 | or | | | | ECJHVB1C106 | 0.85 | 0 | | | | | | |
| 22 | ±20 % (M) | | | | | | | ECJHVB1A226M | 0.85 | 0 | ECJHVB0J226M | 0.85 | 0 |

□: Capacitance tolerance code : "□" for "K" or "M"

Standard packaging quantity of Packaging Style Code "V" (T = 0.85 mm): 4,000 pcs./reel Avoid flow soldering.