

Multilayer Ceramic Capacitors (Temperature compensating type)

EMK042CG8R2BD-W



■ Features

- Item Summary
8.2pF±0.1pF, 16V,
C0G/CG, 01005/0402 (EIA/JIS)
- Lifecycle Stage
Mass Production (Preferred)
- Standard packaging quantity (minimum)
Taping Embossed 40000pcs

■ Products characteristics table

| | |
|---|----------------|
| Capacitance | 8.2 pF ± 0.1pF |
| Case Size (EIA/JIS) | 01005/0402 |
| Rated Voltage | 16 V |
| Q (min) | 564 at 1MHz |
| Temperature Characteristic (EIA) | C0G |
| Operating Temp. Range (EIA) | -55 to +125 °C |
| Temperature Characteristic (JIS) | CG |
| Operating Temp. Range (JIS) | -55 to +125 °C |
| Temperature Characteristic | 0 ±30 ppm/°C |
| High Temperature Loading (% Rated Voltage) | 200 % |
| Insulation Resistance (min) | 10 GΩ |
| RoHS Compliance (10 subst.) | Yes |
| REACH Compliance (209 subst.) | Yes |
| Halogen Free | Yes |
| Soldering | Reflow |

■ External Dimensions

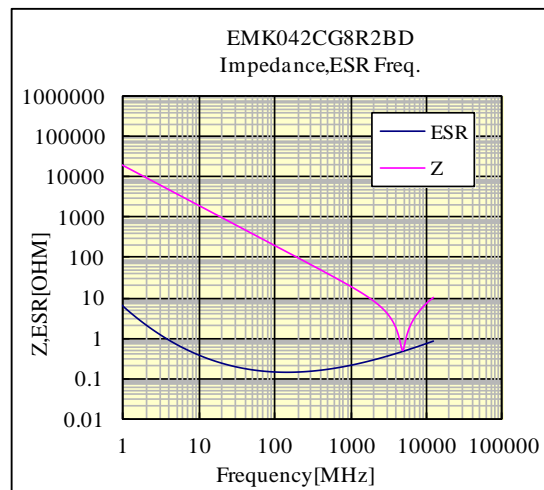
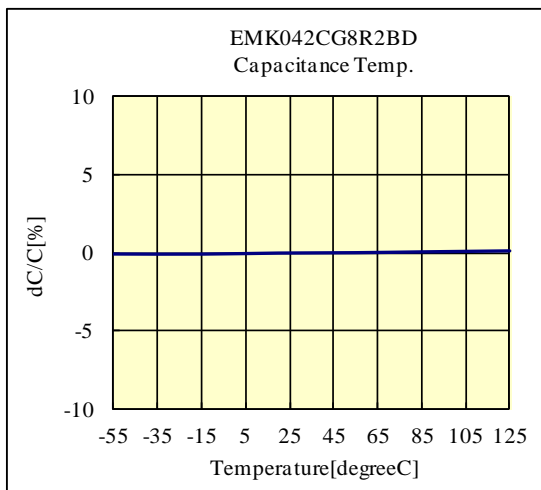
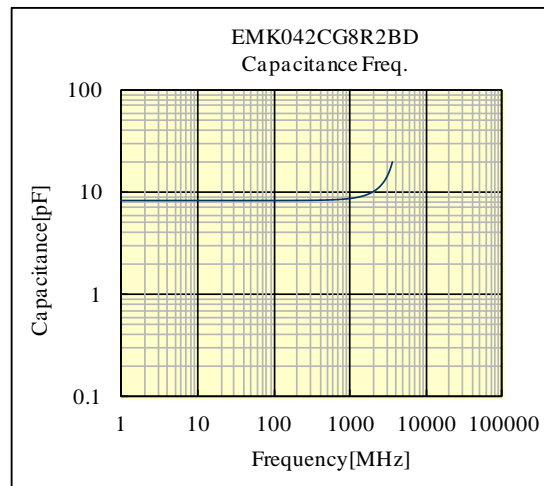
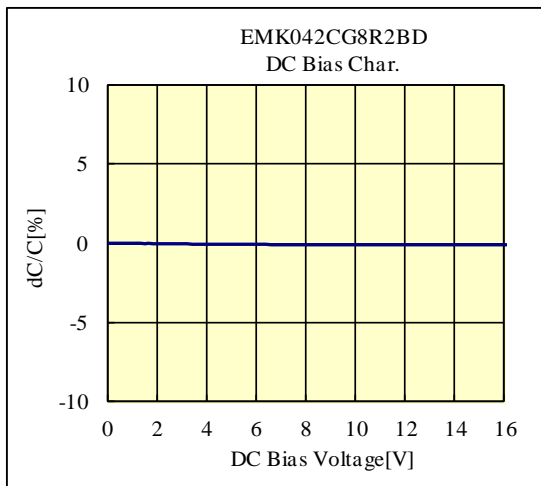
| | |
|-------------|---------------|
| Dimension L | 0.4 ±0.02 mm |
| Dimension W | 0.2 ±0.02 mm |
| Dimension T | 0.2 ±0.02 mm |
| Dimension e | 0.10 ±0.03 mm |

The data is reference only. Electrical characteristics vary depending on environment or measurement condition.
 TAIYO YUDEN reserves the right to make change to the data at any time without notice.
 Before making final selection, please check product specification.

○EMK042CG8R2BD

16V 0402 CG/C0G 8.2pF +/- 0.1pF t=0.22mmMAX

16V 01005 CG/C0G 8.2pF +/- 0.1pF t=0.009inchMAX



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Before making final selection, please check product specification.

Please read this notice before using the TAIYO YUDEN products.



REMINDERS

- Please conduct validation and verification of our products in actual condition of mounting and operating environment before using our products.
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Please do not incorporate our products into any equipment requiring high levels of safety and/or reliability (e.g., aerospace equipment, aviation equipment*, medical equipment classified as Class IV by IMDRF, nuclear control equipment, undersea equipment, military equipment).

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When our products are used even for high safety and/or reliability-required devices or circuits of general electronic equipment, it is strongly recommended to perform a thorough safety evaluation prior to use of our products and to install a protection circuit as necessary.

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[>>Taiyo Yuden\(太阳诱电\)](#)