CERAFIL®

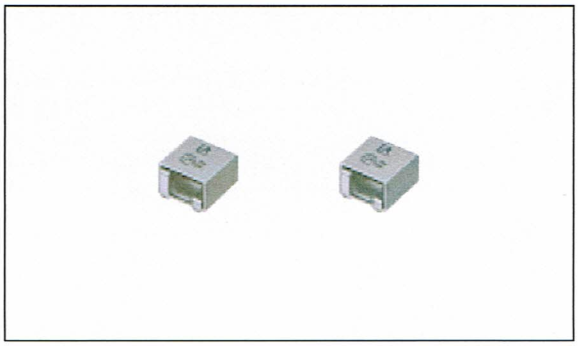


muRata

SMD Type Ceramic Filter for Communications Equipment **SFGCG455** Series

# Chip Ceramic for Automatic Insertion and Reflow Soldering in Smaller Package

The SFGCG455□ series comprises small, high performance, thin (4.0mm) filters consisting of 4 ceramic elements. The filters exhibit an extremely flat G.D.T. characteristic.
The filters are recommended for digital communication applications and are perfect in hand held cellular phones, etc.



## ■FEATURES

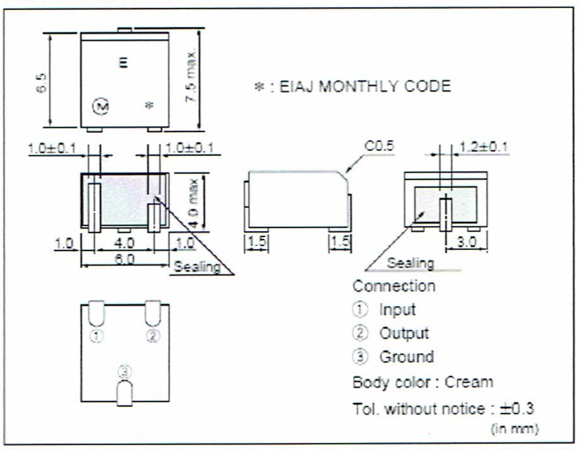
1. The filters are mountable by automatic placers.
2. The filters can be reflow soldered and withstand washing.
3. They are slim, at only 4.0mm maximum thickness, and have a small mounting area (7.5×6.0mm) enabling flexible PCB design.
4. The bandwidth ranges from A to E.
5. Operating temperature range : −20℃ to +80℃
   Storage temperature range : −40℃ to +85℃

## ■SPECIFICATIONS

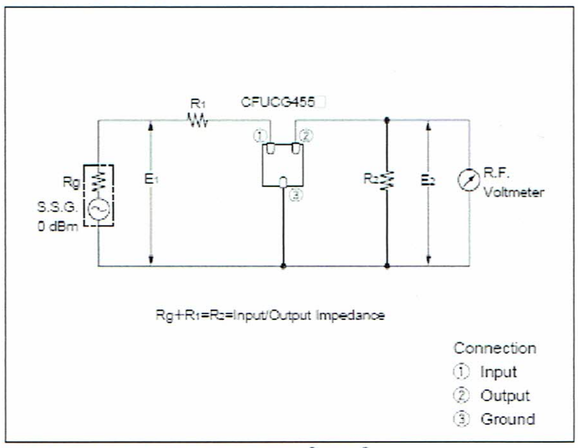
| Part Number \ Characteristics | Center Frequency (Center of 6dB B.W.) (kHz) | 6dB Bandwidth (kHz) min. | 40dB Bandwidth (kHz) max. | Stopband Attenuation 455±100kHz (dB) min. | Insertion Loss (at minimum loss point) (dB) max. | Ripple (dB) max. | G.D.T. Deviation (μ sec.) max. | Input/Output Impedance (Ω) |
|---|---|---|---|---|---|---|---|---|
| SFGCG455AX | 455±2.0 | ±17.5 | ±40.0 | 25 | 4 | 1.0 | 15 | 1000 |
| SFGCG455BX | 455±1.5 | ±15.0 | ±35.0 | 25 | 5 | 1.0 | 15 | 1000 |
| SFGCG455CX | 455±1.5 | ±12.5 | ±30.0 | 25 | 6 | 1.0 | 15 | 1000 |
| SFGCG455DX | 455±1.0 | ±10.0 | ±25.0 | 23 | 7 | 1.0 | 20 | 1500 |
| SFGCG455EX | 455±1.0 | ± 7.5 | ±20.0 | 23 | 8 | 1.0 | 20 | 1500 |

Note : For tape and reel packaging, the suffix is "-TC". For example, SFGCG455EX-TC.

## ■DIMENSIONS




## ■TEST CIRCUIT




Note : Use DC blocking capacitor to connect the filters output to an IF amplifier. Avoid applying direct current between terminals ② and ③.