

# FILTERS

## FOR COMMUNICATIONS EQUIPMENT

### CFUCG/CFUCG□X/SFGCG SERIES

**Murata**

*Innovator in Electronics*



The CFUCG455□ Series comprises small, high performance, 4.0mm thin filters consisting of 4 ceramic elements. Their innovative construction is perfect for shrinking mobile communication products such as pocket pagers and cellular phones.

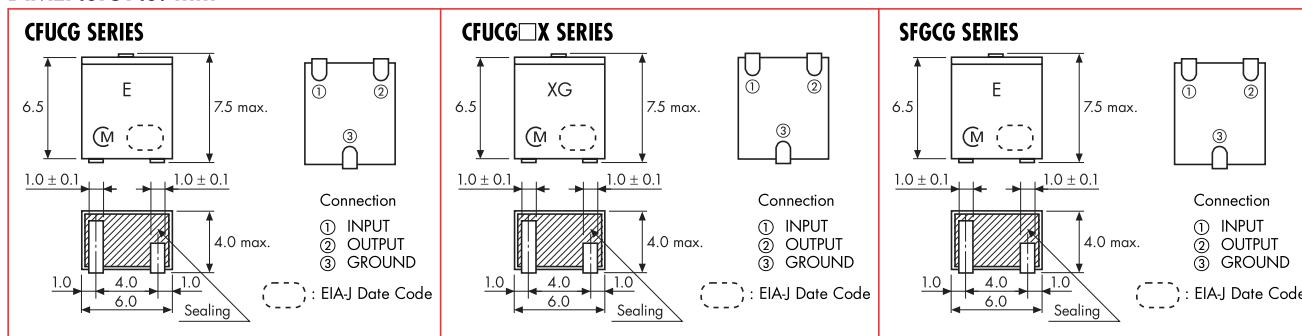
In addition, CFUCG455□X Series filters exhibit an extremely flat G.D.T. characteristic combined with a narrow bandwidth. The filters are recommended for narrow band digital communication applications.

The SFGCG455□ Series filters exhibit an extremely flat G.D.T. characteristic as well, and are recommended for digital communication applications and are perfect in hand held cellular phones, etc.

#### FEATURES

- Mountable by automatic placers
- Can be reflow soldered and can withstand washing
- 4.0mm maximum thickness, with small mounting area (7.5 x 6.0mm<sup>2</sup>) enabling flexible PCB design
- Bandwidth range from D to G

#### DIMENSIONS: mm

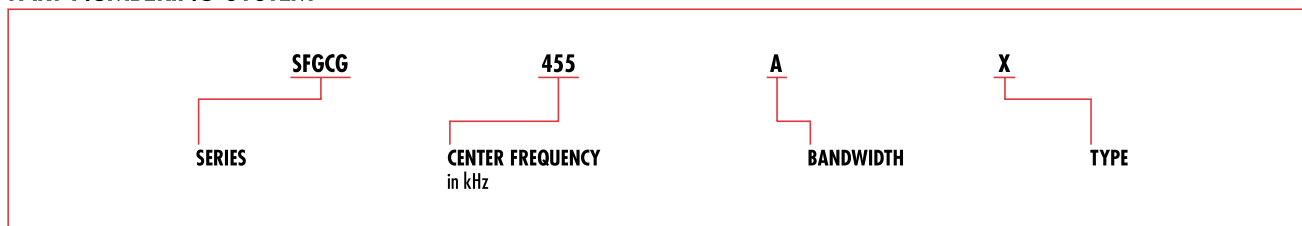


#### SPECIFICATIONS

Part Number	Center Frequency (Center of 6dB B.W.) (kHz)	6dB Bandwidth (kHz min.)	40dB Bandwidth (kHz max.)	Stop Band Attenuation (455 ± 100kHz) (dB min.)	Insertion Loss at minimum loss point (dB max.)	Ripple (dB max.)	GDT Ripple Deviation (μsec, max.)	Input/Output Impedance (Ω)
<b>CFUCG Series</b>								
CFUCG455D	455 ± 1.5	±10	±20	27	4	(±7kHz) 2.0	—	1500
CFUCG455E	455 ± 1.5	±7.5	±15	27	6	(±5kHz) 1.5	—	1500
CFUCG455F	455 ± 1.5	±6.0	±12.5	27	6	(±4kHz) 1.5	—	1500
CFUCG455G	455 ± 1.0	±4.5	±10	25	6	(±3kHz) 1.5	—	1500
<b>CFUCG□X Series (Narrow Bandwidth G.D.T. Flat Type)</b>								
CFUCG455EX	455 ± 1.5	±7.5	±17.5	27	6	(±5kHz) 1.0	(±5kHz) 25	1500
CFUCG455FX	455 ± 1.0	±6.0	±15.0	27	6	(±4kHz) 1.0	(±4kHz) 25	1500
CFUCG455GX	455 ± 1.0	±4.5	±12.5	25	6	(±3kHz) 1.0	(±3kHz) 25	1500
CFUCG455HX	455 ± 1.0	±3.0	±10.0	25	7	(±2kHz) 1.0	(±2kHz) 25	1500
<b>SFGCG Series</b>								
SFGCG455AX	455 ± 2.0	±17.5	±40	25	4	(±12kHz) 1.0	(±12kHz) 15	1000
SFGCG455BX	455 ± 1.5	±15	±35	25	5	(±10kHz) 1.0	(±10kHz) 15	1000
SFGCG455CX	455 ± 1.5	±12.5	±30	25	6	(±8kHz) 1.0	(±8kHz) 15	1000
SFGCG455DX	455 ± 1.0	±10	±25	23	7	(±7kHz) 1.0	(±7kHz) 20	1500
SFGCG455EX	455 ± 1.0	±7.5	±20	23	8	(±5kHz) 1.0	(±5kHz) 20	1500

**Note:** For safety purposes, connect the output of filters to the IF amplifier through a DC blocking capacitor. Avoid applying a direct current to the output of ceramic filters.

#### PART NUMBERING SYSTEM



\*Applicable in North American market only. ▼Applicable in European market only.

For more detailed information regarding this product line in North America, see Catalog No. P-05-D. To receive additional information on Murata Products call 1-800-831-9172. For more detailed information regarding this product line in Europe, see Catalog No. P05E-8.