⚠Note  Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this PDF catalog to prevent smoking and/or burning, etc.
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# CERAFIL® (Filters/Traps/Discriminators) for Audio/Visual Equipment

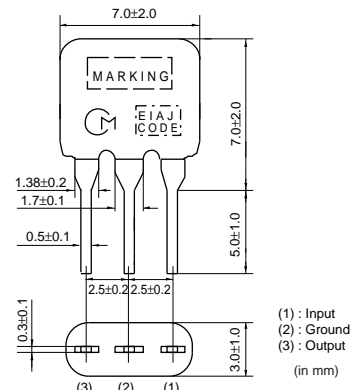## CERAFIL® 10.7MHz Standard Lead Type

SFELA10M7 series for FM-receivers are monolithic type ceramic filters which use the thickness expander mode of the piezoelectric ceramic.
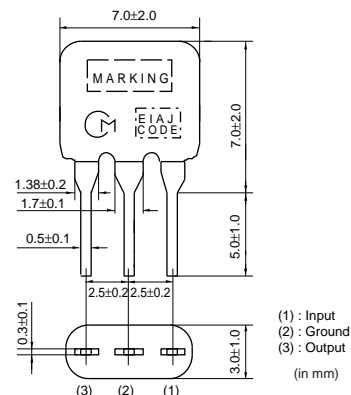
### ■ Features

1. These miniature filters have high mechanical strength.
2. Low loss, favorable waveform symmetry, and high selectivity
3. Various band widths are available for applications in wide to narrow bands.
4. Small dispersion and stable characteristics
5. Change in center frequency is typically within +-30ppm/(degree C) at -20 to +80 (degree C).
6. High reliability



SFELA10M7HA00-B0
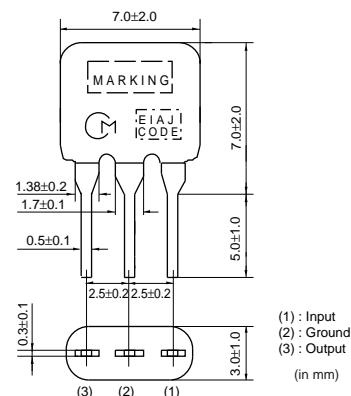
(1) : Input
(2) : Ground
(3) : Output

(in mm)



SFELA10M7GA00-B0

(1) : Input
(2) : Ground
(3) : Output

(in mm)



SFELA10M7FA00-B0

(1) : Input
(2) : Ground
(3) : Output

(in mm)

| Part Number | Center Frequency (fo) (MHz) | 3dB Bandwidth (kHz) | Attenuation (kHz) | Insertion Loss (dB) | Spurious Attenuation (dB) | Input/Output Impedance (ohm) |
|---|---|---|---|---|---|---|
| **SFELA10M7HA00-B0** | 10.700 ±30kHz | 180 ±40kHz | 520 max. | 7.0 max. | 40 min. | 330 |
| **SFELA10M7GA00-B0** | 10.700 ±30kHz | 230 ±50kHz | 570 max. | 4.0 ±2.0dB | 40 min. | 330 |
| **SFELA10M7FA00-B0** | 10.700 ±30kHz | 280 ±50kHz | 650 max. | 4.0 ±2.0dB | 30 min. | 330 |

Attenuation Bandwidth : at 20dB loss point     Area of Spurious Attenuation : [within 9MHz to 12MHz]

Insertion Loss: at minimum loss point

Center frequency (fo) defined by the center of 3dB bandwidth.

The order quantity should be an integral multiple of the "Minimum Quantity" shown in the package page.

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## ■ Standard Center Frequency Rank Code

| CODE | 30kHz Step | 25kHz Step | Color Code |
|------|-----------|-----------|-----------|
| D | 10.64MHz±30kHz | 10.650MHz±25kHz | Black |
| B | 10.67MHz±30kHz | 10.675MHz±25kHz | Blue |
| A | 10.70MHz±30kHz | 10.700MHz±25kHz | Red |
| C | 10.73MHz±30kHz | 10.725MHz±25kHz | Orange |
| E | 10.76MHz±30kHz | 10.750MHz±25kHz | White |
| Z | Combination A,B,C,D,E | | |
| M | Combination A,B,C | | |

## ■ Test Circuit

(1) : Input
(2) : Output
(3) :Ground

R$_1$

(1)  (2)  (3)

Rg

S.S.G

R$_2$  C

RF
Voltmeter
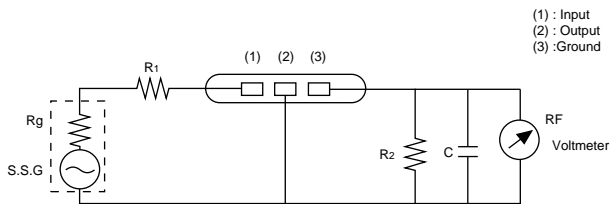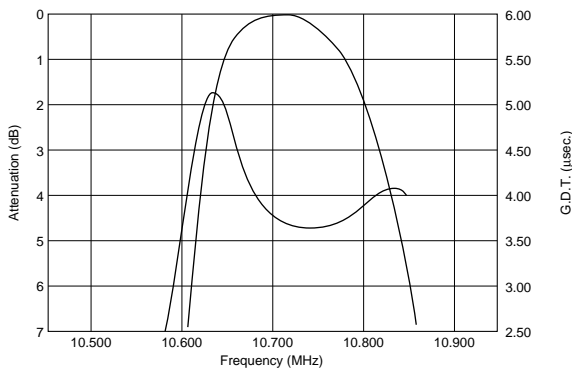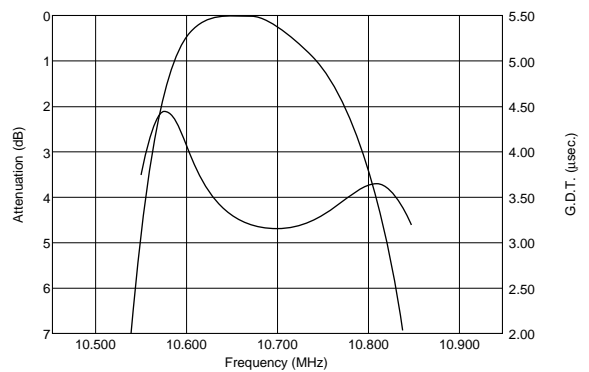
Rg + R$_1$ = R$_2$ = Input and Output Impedance
C = 10pF (Including stray capacitance and input
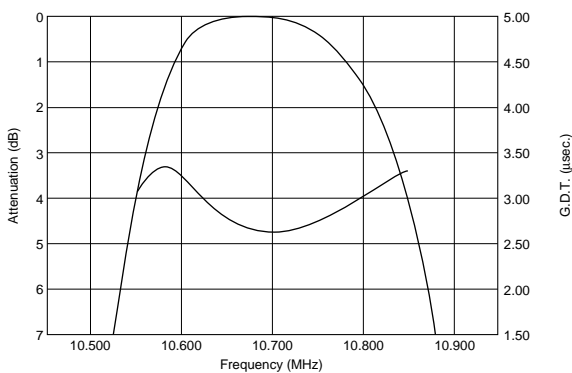capacitance of RF voltmeter.)

## ■ Frequency Characteristics

SFELA10M7HA00-B0

SFELA10M7GA00-B0

SFELA10M7FA00-B0

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## ■ Frequency Characteristics (Spurious)

### SFELA10M7HA00-B0



### SFELA10M7GA00-B0



### SFELA10M7FA00-B0