

# CERAFIL® (CERAFIL® 10.7MHz) for Audio/Visual Equipment



## Low Loss Type SFELF Series

SFELF10M7 series for FM receivers are monolithic type ceramic filters that use the thickness expander mode of the piezoelectric ceramic.

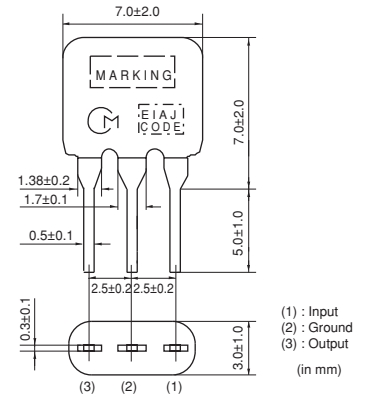
As part of the environment protection program, the solder for terminal plating and terminal-element connection inside of the ceramic filter contain no lead (Pb).

### ■ Features

1. Insertion loss is 1 to 1.5dB lower than conventional products. These types are useful for elevating the sensitivity of sets.
2. Small dispersion and stable characteristics
3. Excellent shape factor of frequency response
4. Good waveform symmetry



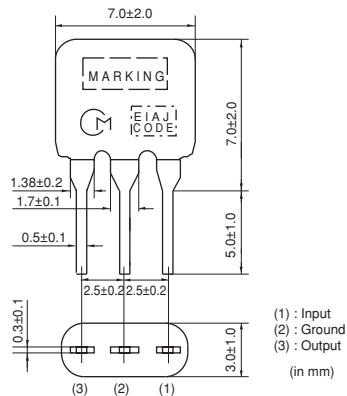
SFELF10M7JAA0-B0



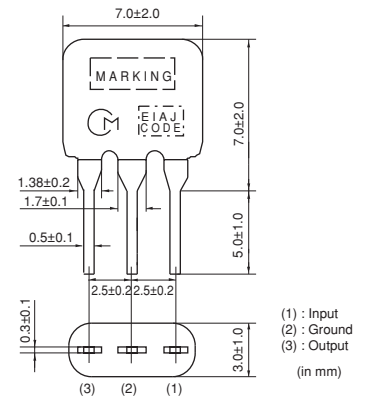
SFELF10M7HAA0-B0



SFELF10M7GAA0-B0



SFELF10M7FAA0-B0



Part Number	Center Frequency (fo) (MHz)	3dB Bandwidth (kHz)	Attenuation (kHz)	Insertion Loss (dB)	Spurious Attenuation (1) (dB)	Spurious Attenuation (2) (dB)	Input/Output Impedance (ohm)
SFELF10M7JAA0-B0	10.700 ±30kHz	150 ±40kHz	360 max.	4.5±2.0dB	35 min. [within 9MHz to fo]	35 min. [within fo to 12MHz]	330
SFELF10M7HAA0-B0	10.700 ±30kHz	180 ±40kHz	470 max.	3.5±1.5dB	35 min. [within 9MHz to fo]	35 min. [within fo to 12MHz]	330
SFELF10M7GAA0-B0	10.700 ±30kHz	230 ±50kHz	520 max.	3.0±2.0dB	35 min. [within 9MHz to fo]	35 min. [within fo to 12MHz]	330
SFELF10M7FAA0-B0	10.700 ±30kHz	280 ±50kHz	590 max.	2.5±2.0dB	30 min. [within 9MHz to fo]	30 min. [within fo to 12MHz]	330

Area of Attenuation: [within 20dB]

Area of Insertion Loss: at minimum loss point

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

For safety purposes, connect the output of filters to the IF amplifier through a D.C. blocking capacitor. Avoid applying a direct current to the output of ceramic filters.

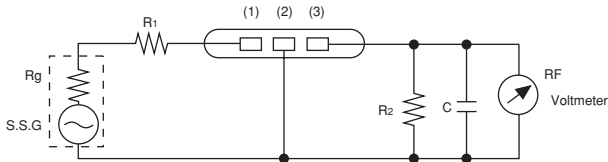
The order quantity should be an integral multiple of the "Minimum Quantity" shown in the package page.

### 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

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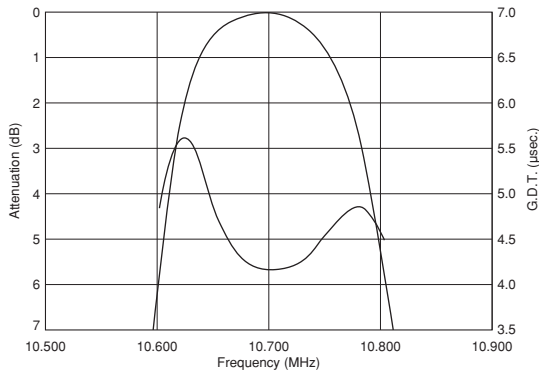


$R_g + R_1 = R_2 =$  Input and Output Impedance  
 $C = 10\text{pF}$  (Including stray capacitance and input capacitance of RF voltmeter.)

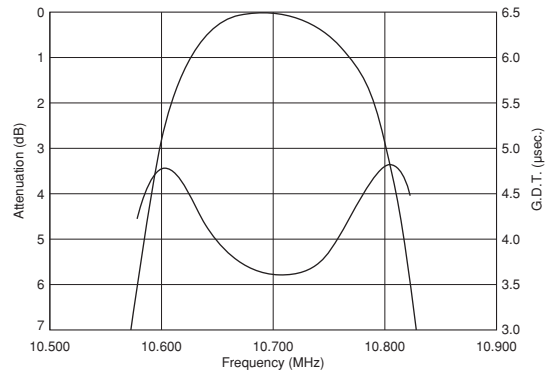
(1) : Input  
 (2) : Ground  
 (3) : Output

### Frequency Characteristics

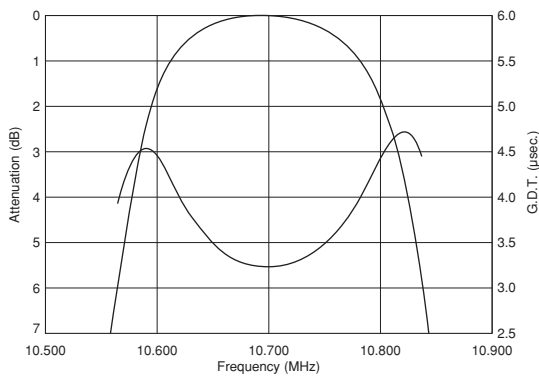
SFELF10M7JAA0-B0



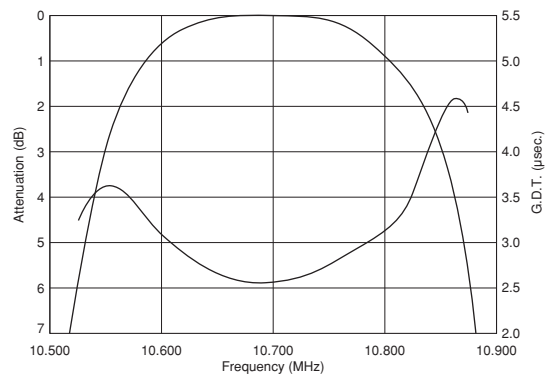
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SFELF10M7GAA0-B0

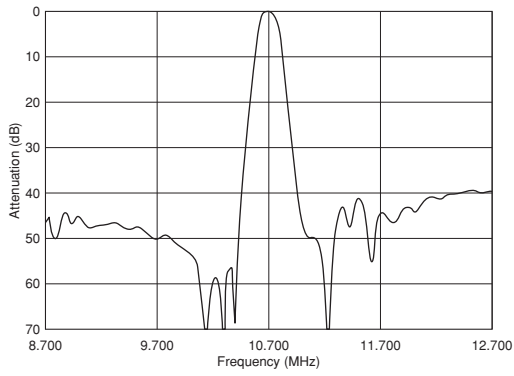


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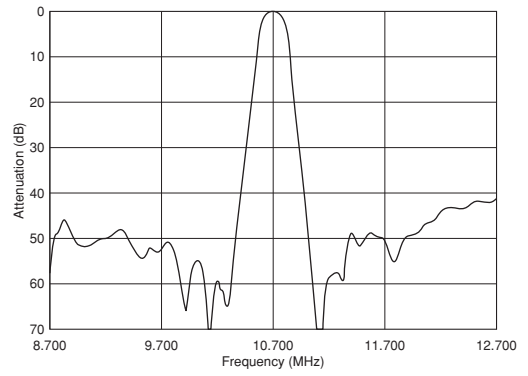


## ■ Frequency Characteristics (Spurious)

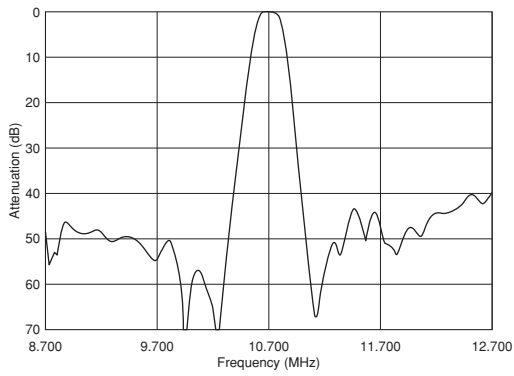
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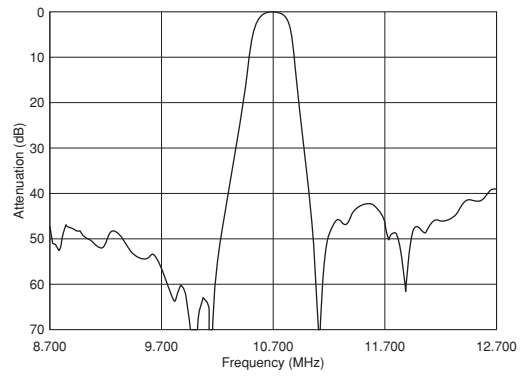
SFELF10M7HAA0-B0



SFELF10M7GAA0-B0



SFELF10M7FAA0-B0



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