

# CERAFILE® (Filters/Traps/Discriminators) for Audio/Visual Equipment

**muRata**

## CERAFILE® 10.7MHz High Selectivity Type SFTLA Series

SFTLA10M7 series for FM-receivers are monolithic type ceramic filters which use the thickness expander mode of the piezoelectric ceramic.

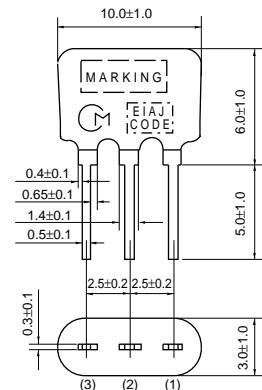
### ■ Features

1. It has an excellent shape factor, and it is possible to obtain 1.5 times more excellent selectivity than SFELA10M7 series (by detuning +300 or 400kHz).
2. Good performance of spurious suppression
3. Having the same terminal pitch as the SFELA10M7 series, it easily replaces that series.
4. By replacing two SFELA10M7 series filters with one SFTLA10M7 filter, more compact sets can be made.
5. Well-suited for 1-chip ICs

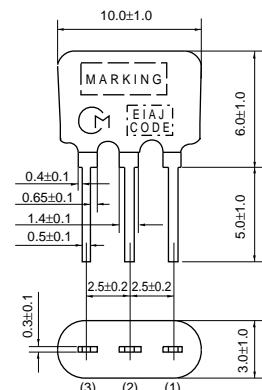
11



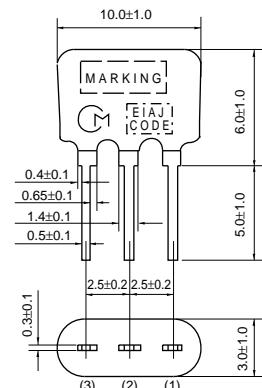
SFTLA10M7HA00-B0



SFTLA10M7GA00-B0



SFTLA10M7FA00-B0



Part Number	Center Frequency (f <sub>0</sub> ) (MHz)	3dB Bandwidth (kHz)	Attenuation (kHz)	Insertion Loss (dB)	Spurious Attenuation (dB)	Input/Output Impedance (ohm)
<b>SFTLA10M7HA00-B0</b>	10.700 ±30kHz	180 ±40kHz	510 max.	5.5 ±2.5dB	50 min.	330
<b>SFTLA10M7GA00-B0</b>	10.700 ±30kHz	230 ±40kHz	650 max.	6.0 ±2.0dB	50 min.	330
<b>SFTLA10M7FA00-B0</b>	10.700 ±30kHz	280 ±50kHz	700 max.	6.0 ±2.0dB	50 min.	330

Attenuation Bandwidth : at 40dB loss point      Area of Spurious Attenuation : [within 9MHz to 12MHz]

Insertion Loss: at minimum loss point

Center frequency (f<sub>0</sub>) defined by the center of 3dB bandwidth.

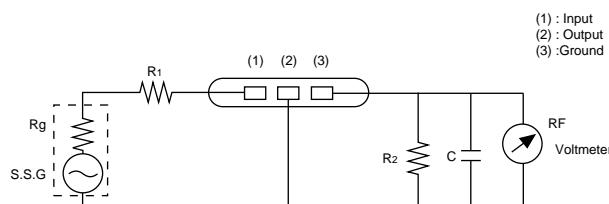
(f<sub>n</sub>) means nominal center frequency.

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
<b>D</b>	10.64MHz±30kHz	10.650MHz±25kHz	Black
<b>B</b>	10.67MHz±30kHz	10.675MHz±25kHz	Blue
<b>A</b>	10.70MHz±30kHz	10.700MHz±25kHz	Red
<b>C</b>	10.73MHz±30kHz	10.725MHz±25kHz	Orange
<b>E</b>	10.76MHz±30kHz	10.750MHz±25kHz	White
<b>Z</b>	Combination A,B,C,D,E		
<b>M</b>	Combination A,B,C		

## ■ Test Circuit

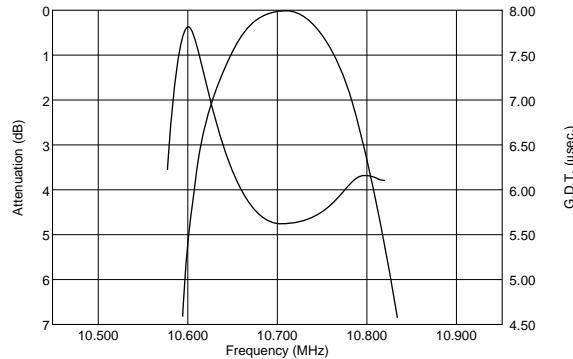


$R_g + R_1 = R_2$  = Input and Output Impedance  
 $C = 10\text{pF}$  (Including stray capacitance and input capacitance of RF voltmeter.)

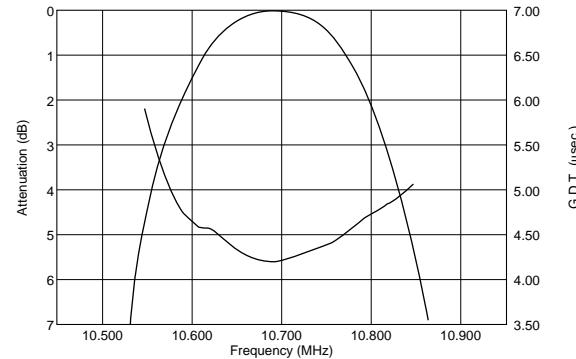
11

## ■ Frequency Characteristics

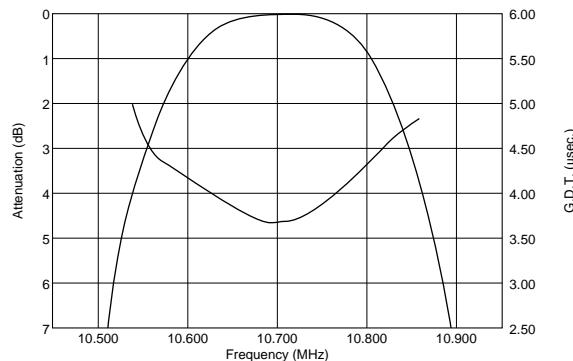
SFTLA10M7HA00-B0



SFTLA10M7GA00-B0

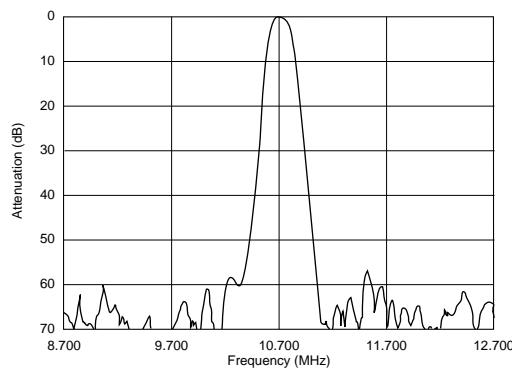


SFTLA10M7FA00-B0

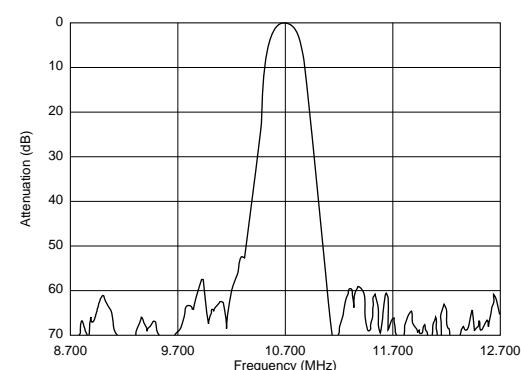


## ■ Frequency Characteristics (Spurious)

SFTLA10M7HA00-B0



SFTLA10M7GA00-B0



SFTLA10M7FA00-B0

