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



## **CERAFIL® 10.7MHz Standard Lead Type**

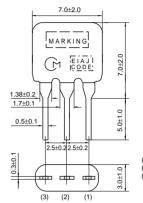
SFELA10M7 series for FM-receivers are monolithic type ceramic filters which use the thickness expander mode of the piezoelectric ceramic.

#### ■ Features

- 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



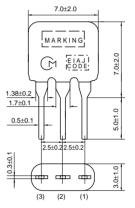
SFELA10M7HA00-B0







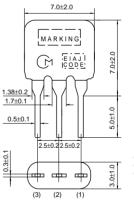
SFELA10M7GA00-B0







SFELA10M7FA00-B0



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

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

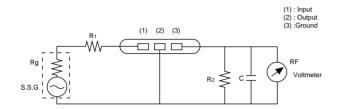
Center frequency (fo) defined by the center of 3dB bandwidth.

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

■ Standard Center Frequency Rank Code

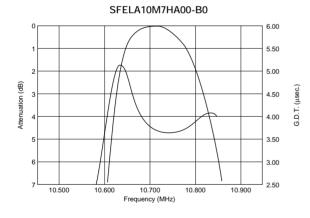
CODE	30kHz Step	25kHz Step	Color Code			
D	10.64MHz±30kHz	10.650MHz±25kHz	Black			
В	10.67MHz±30kHz	10.675MHz±25kHz	Blue			
Α	10.70MHz±30kHz	10.700MHz±25kHz	Red			
С	10.73MHz±30kHz	10.725MHz±25kHz	Orange			
E	10.76MHz±30kHz	10.750MHz±25kHz	White			
Z	Combination A,B,C,D,E					
М	Combination A,B,C					

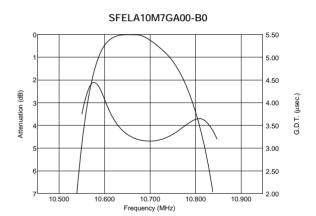
#### **■** Test Circuit

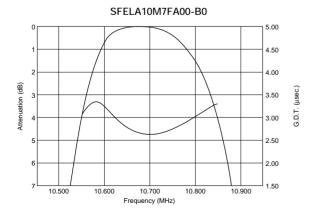


 $Rg+R_1=R_2=Input\ and\ Output\ Impedance$   $C=10pF\ (Including\ stray\ capacitance\ and\ input\ capacitance\ of\ RF\ voltmeter.)$ 

#### ■ Frequency Characteristics







### **■** Frequency Characteristics (Spurious)

