

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



## CERAFIL® 10.7MHz Wide Bandwidth Type

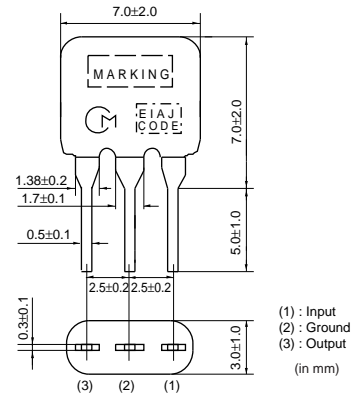
SFELA10M7 series for FM-receivers are monolithic type ceramic filters which use the thickness expander mode of the piezoelectric ceramic.

### ■ Features

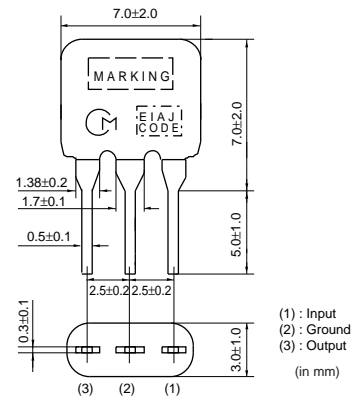
Realizes widerband characteristics not obtained by conventional ceramic filters.



SFELA10M7EA00-B0



SFELA10M7DF00-B0



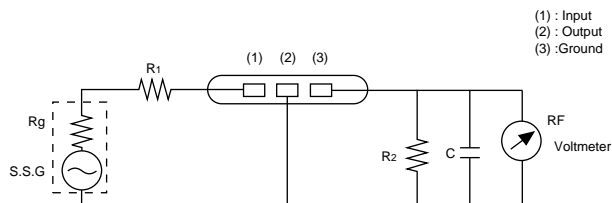
Part Number	Center Frequency (fo) (MHz)	Nominal Center Frequency (fn) (MHz)	3dB Bandwidth (kHz)	Attenuation (kHz)	Insertion Loss (dB)	Spurious Attenuation (dB)	Input/Output Impedance (ohm)
SFELA10M7EA00-B0	10.700 ±30kHz	-	330 ±50kHz	680 max.	4.0 ±2.0dB	30 min.	330
SFELA10M7DF00-B0	-	10.700	fn±175 min.	950 max.	3.0 ±2.0dB	20 min.	470

Attenuation Bandwidth : at 20dB loss point      Area of Spurious Attenuation : [within 8MHz to 12MHz]  
Insertion Loss: at minimum loss point  
Center frequency (fo) defined by the center of 3dB bandwidth.  
(fn) 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
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		

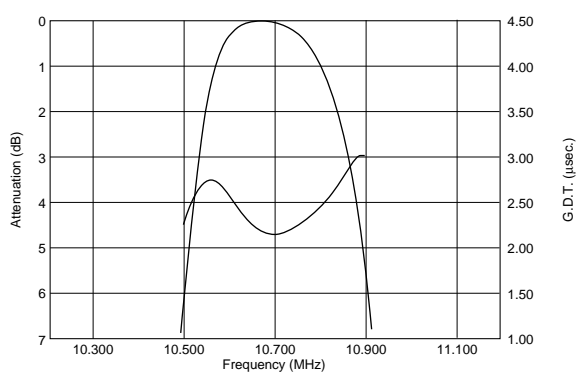
## ■ Test Circuit



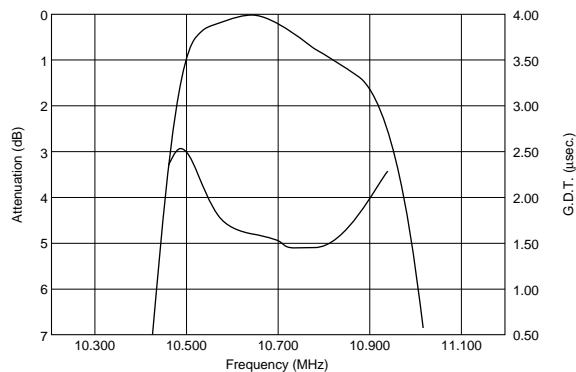
$R_g + R_1 = R_2 = \text{Input and Output Impedance}$   
 $C = 10\text{pF}$  (Including stray capacitance and input capacitance of RF voltmeter.)

## ■ Frequency Characteristics

SFELA10M7EA00-B0

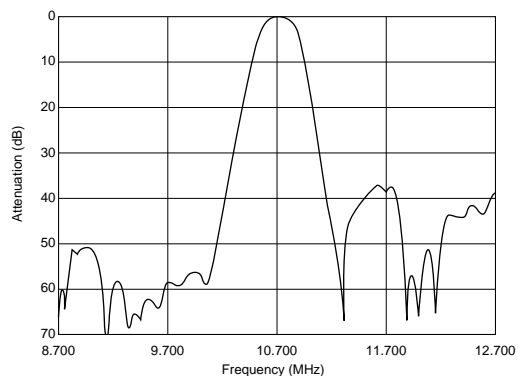


SFELA10M7DF00-B0



## ■ Frequency Characteristics (Spurious)

SFELA10M7EA00-B0



SFELA10M7DF00-B0

