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

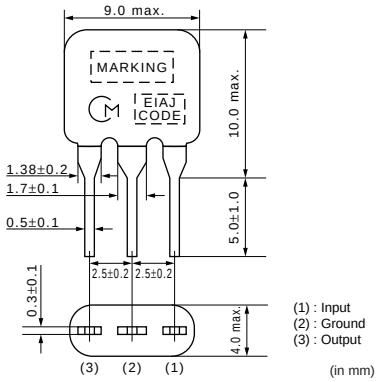
CERAFIL® 10.7MHz for FM-IF Tuners

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

■ Features

1. Little dispersion of amplitude characteristics and phase characteristics (G. D. T. characteristics)
2. The SFELA10M7G_X series has G. D. T. characteristics and is useful for obtaining low distortion.
   SFELA10M7F_L series, in these ceramic filters, being in harmony with flatness of G. D. T., roundness of the amplitude and selectivity characteristics, therefore, these ceramic filters are suitable to high-grade stereo tuners. Even in mismatching conditions, they can keep little distortion because of low Qm of ceramic material.
   The SFELA10M7FA0G series is based on SFELA10M7FA00/GA00/HA00, and it obtains high selectivity with low loss.
   There is little dispersion of amplitude and G. D. T. characteristics, and low distortion rate can be obtained.
3. All products are inspected the flatness of G. D. T. characteristics.

SFELA10M7JAXE-B0



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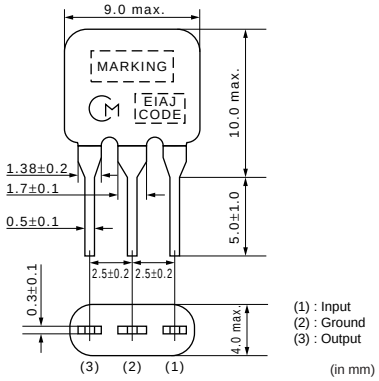

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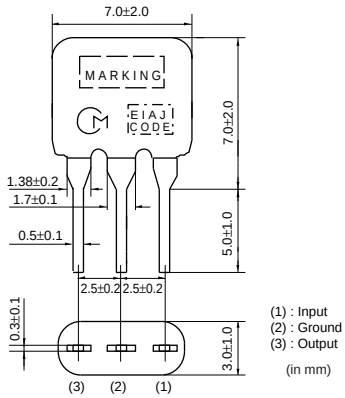

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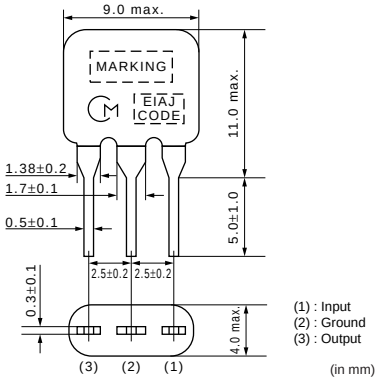

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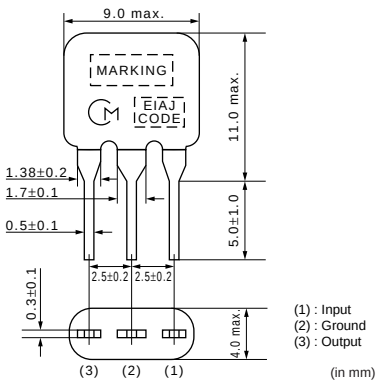

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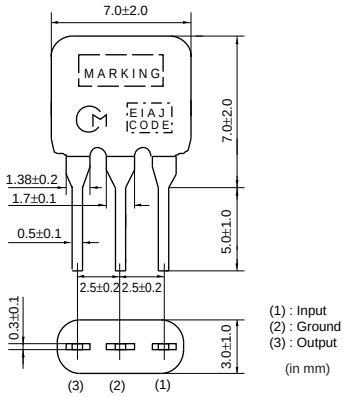

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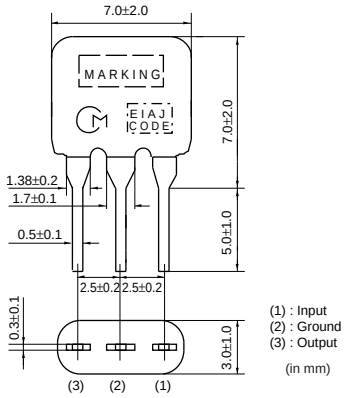

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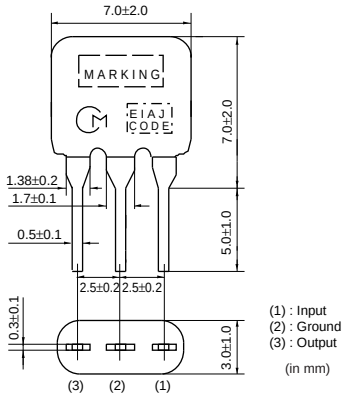

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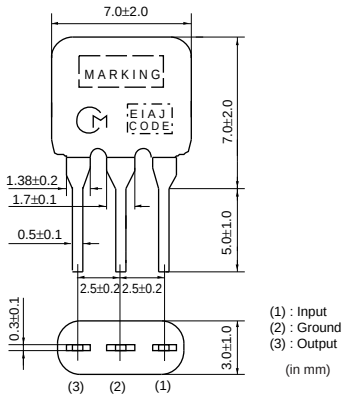

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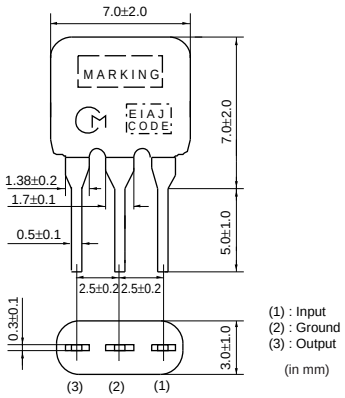

Part Number	Center Frequency (fo) (MHz)	3dB Bandwidth (kHz)	Attenuation (kHz)	Insertion Loss (dB)	Spurious Attenuation (dB)	GDT Bandwidth (kHz)	Input/Output Impedance (ohm)
SFELA10M7JAXE-B0	10.700 ±30kHz	150 ±30kHz	500 max.	14.0 max.	35 min.	fo±50 min.[within 0.15µsec.]	330
SFELA10M7HAXD-B0	10.700 ±30kHz	180 ±30kHz	530 max.	14.0 max.	33 min.	fo±60 min.[within 0.15µsec.]	330
SFELA10M7HA0G-B0	10.700 ±30kHz	180 ±40kHz	520 max.	7.0 max.	40 min.	fo±45 min.[within 0.5µsec.]	330
SFELA10M7GAXX-B0	10.700 ±30kHz	250 ±40kHz	670 max.	12.0 max.	25 min.	fo±110 min.[within 0.2µsec.]	330
SFELA10M7GAXA-B0	10.700 ±30kHz	220 ±40kHz	610 max.	12.5 max.	30 min.	fo±80 min.[within 0.15µsec.]	330
SFELA10M7GALP03-B0	10.700 ±30kHz	250 ±50kHz	650 max.	10.0 max.	30 min.	fo±65 min.[within 0.25µsec.]	330
SFELA10M7GALM-B0	10.700 ±30kHz	230 ±50kHz	600 max.	9.0 ±2.0dB	30 min.	fo±60 min.[within 0.25µsec.]	330
SFELA10M7GA0G-B0	10.700 ±30kHz	230 ±50kHz	600 max.	7.0 max.	40 min.	fo±60 min.[within 0.5µsec.]	330
SFELA10M7FALL-B0	10.700 ±30kHz	280 ±50kHz	700 max.	7.0 ±2.0dB	25 min.	fo±70 min.[within 0.25µsec.]	330
SFELA10M7FA0G-B0	10.700 ±30kHz	280 ±50kHz	650 max.	4.0 ±2.0dB	30 min.	fo±85 min.[within 0.5µsec.]	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
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		

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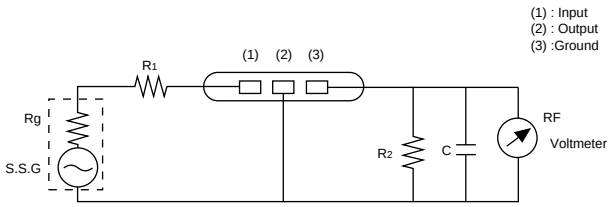
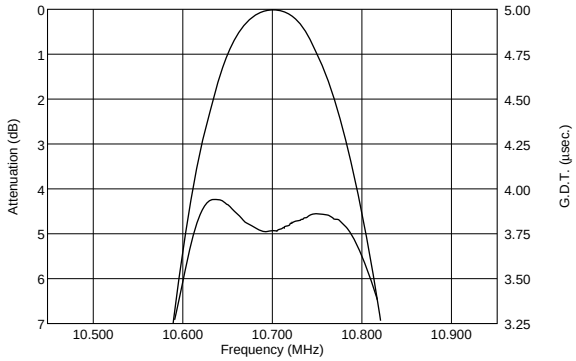
■ Test Circuit



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

■ Frequency Characteristics

SFELA10M7JAXE-B0



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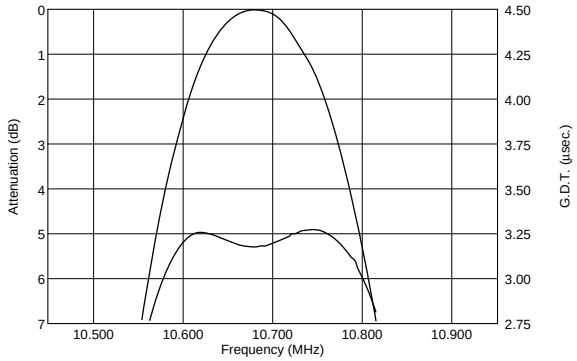

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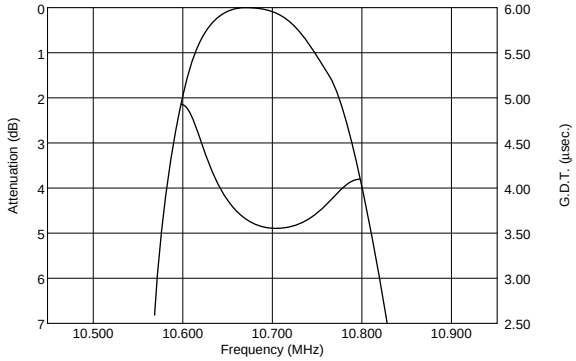

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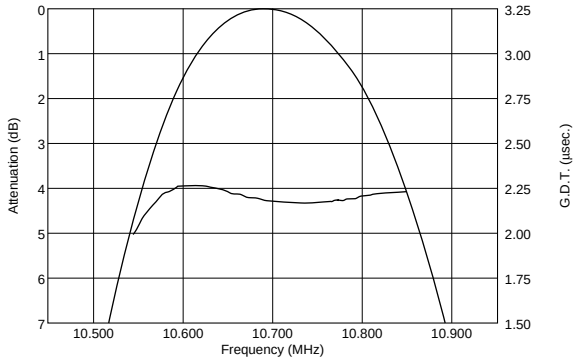

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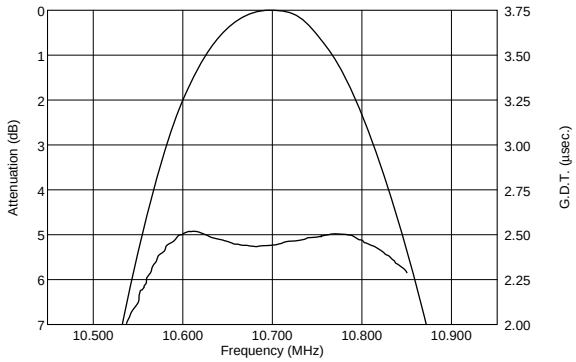

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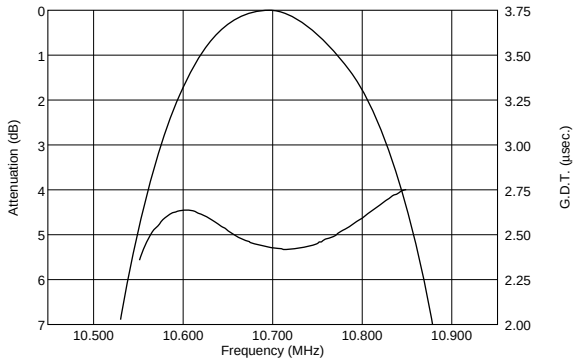

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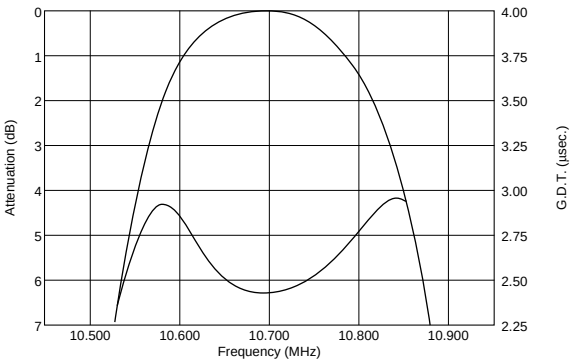
■ Frequency Characteristics

SFELA10M7GALM-B0



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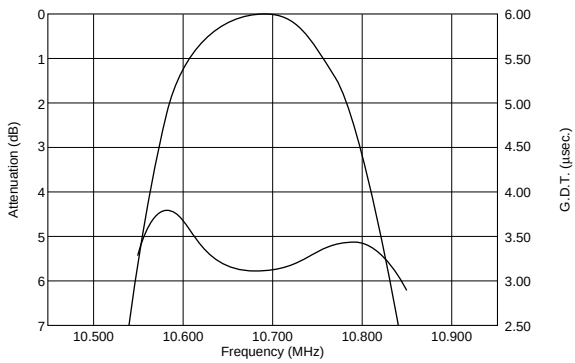

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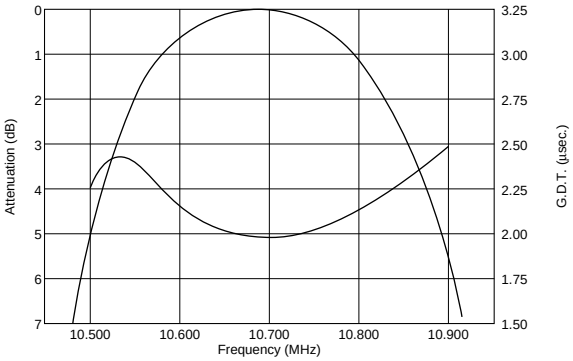

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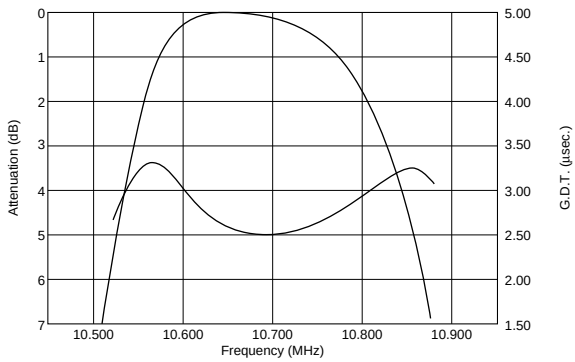

■ Frequency Characteristics (Spurious)

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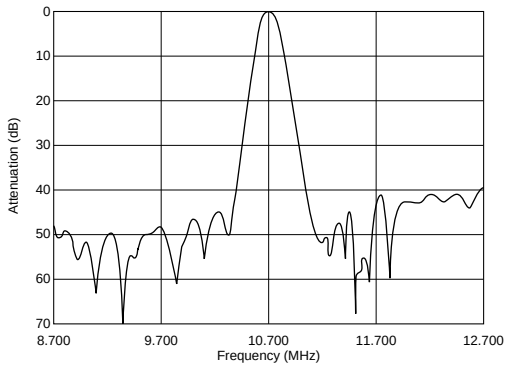

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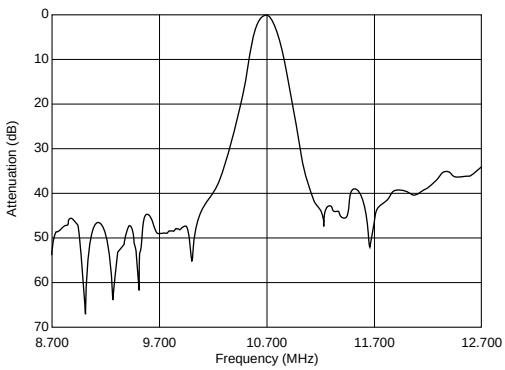

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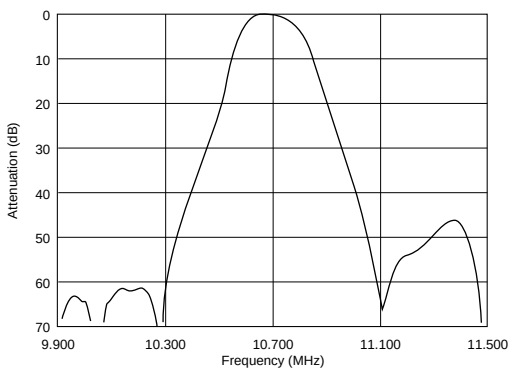

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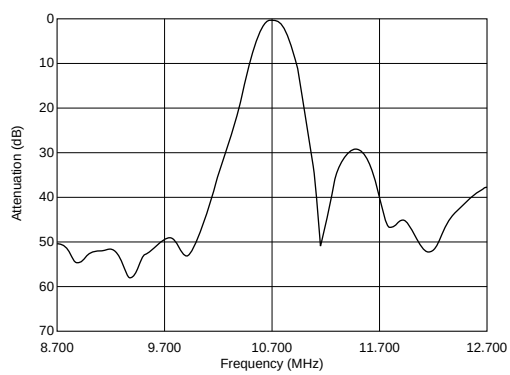

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■ Frequency Characteristics (Spurious)

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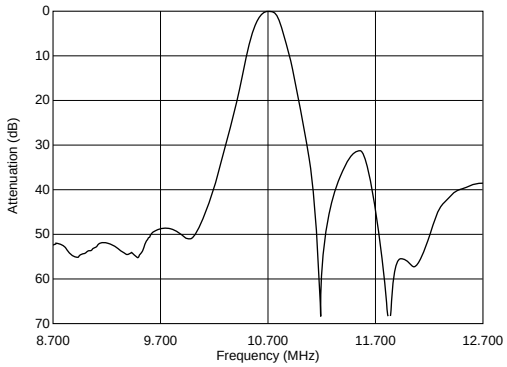

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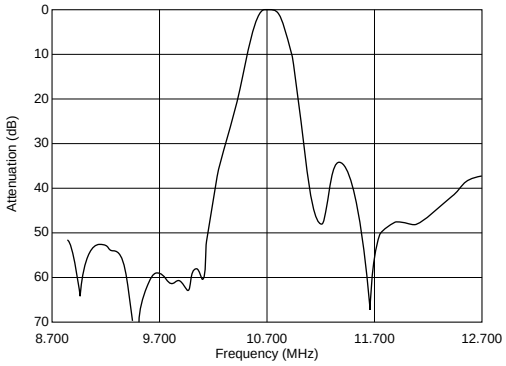

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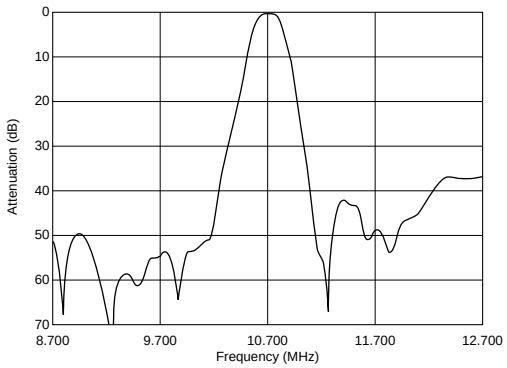

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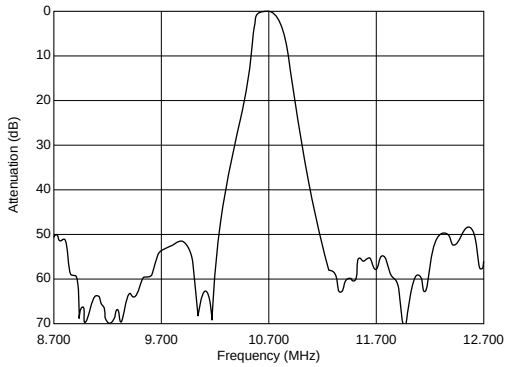

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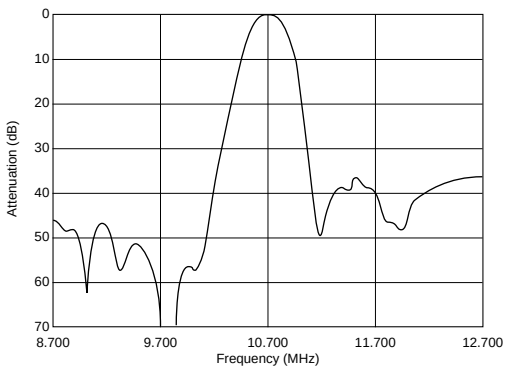

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