

# CERAFIL® (CERAFIL® 455kHz) for Audio/Visual Equipment

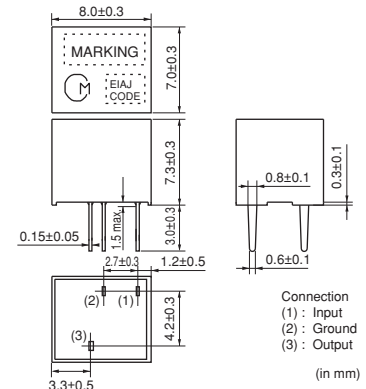
## For AM Stereo Wide Bandwidth Type SFPLA/CFWLA/CFULA Series

SFPLA/CFULA/CFWLA series for AM use is one of the most suitable intermediate filters, having such distinctive features as high selectivity, high stability, high attenuation, and adjustment-free operation. Additionally, its easy matching with IC helps create an easy circuit design.

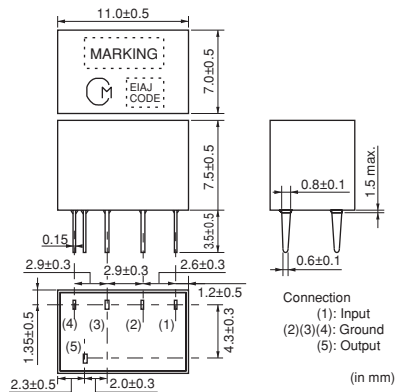
Especially, CFULA/CFWLA\_Y series improves the frequency fidelity in the high sound area of an AM stereo with its wide band and flat characteristics of group delay time.



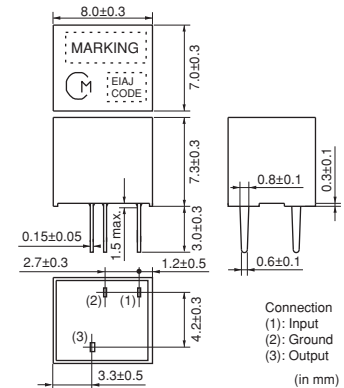
SFPLA Series



CFWLA Series



CFULA Series



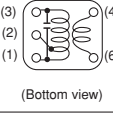
Part Number	Center Frequency (fo) (kHz)	6dB Bandwidth (kHz)	Selectivity (-) (dB)	Selectivity (+) (dB)	Insertion Loss (dB)	GDT 20μsec. Bandwidth (kHz)	Input/Output Impedance (ohm)	Element
SFPLA450KG1A-B0	450.0 ±1.0kHz	fn±4.5 min.	30 min.[fn-9kHz]	30 min.[fn+9kHz]	6.0 max.	-	2000	4
SFPLA450KF1A-B0	450.0 ±1.0kHz	fn±6.0 min.	40 min.[fn-12.5kHz]	40 min.[fn+12.5kHz]	6.0 max.	-	2000	4
SFPLA450KE1A-B0	450.0 ±1.0kHz	fn±7.5 min.	40 min.[fn-15kHz]	40 min.[fn+15kHz]	6.0 max.	-	1500	4
SFPLA450KD1A-B0	450.0 ±1.0kHz	fn±10.0 min.	40 min.[fn-20kHz]	40 min.[fn+20kHz]	4.0 max.	-	1500	4
CFULA450KG1Y-B0	450.0 ±1.0kHz	fn±4.5 min.	40 min.[fn-15kHz]	40 min.[fn+15kHz]	10.0 max.	fn±3	2000	4
CFULA450KF1Y-B0	450.0 ±1.0kHz	fn±6.0 min.	40 min.[fn-17.5kHz]	40 min.[fn+17.5kHz]	9.0 max.	fn±4	2000	4
CFULA450KD1Y-B0	450.0 ±1.0kHz	fn±10.0 min.	40 min.[fn-25kHz]	40 min.[fn+25kHz]	7.0 max.	fn±7	1500	4
CFWLA450KG1Y-B0	450.0 ±1.0kHz	fn±4.5 min.	50 min.[fn-15kHz]	50 min.[fn+15kHz]	11.0 max.	fn±4	2000	6
CFWLA450KF1Y-B0	450.0 ±1.0kHz	fn±6.0 min.	50 min.[fn-17.5kHz]	50 min.[fn+17.5kHz]	10.0 max.	fn±5	2000	6
CFWLA450KD1Y-B0	450.0 ±1.0kHz	fn±10.0 min.	50 min.[fn-25kHz]	50 min.[fn+25kHz]	8.0 max.	fn±8	1500	6
CFWLA450KGFA-B0	450.0 (fn)	fn±4.5 min.	50 min.[fn-10kHz]	50 min.[fn+10kHz]	6.0 max.	-	2000	6
CFWLA450KFFA-B0	450.0 (fn)	fn±6.0 min.	50 min.[fn-12.5kHz]	50 min.[fn+12.5kHz]	6.0 max.	-	2000	6
CFWLA450KEFA-B0	450.0 (fn)	fn±7.5 min.	50 min.[fn-15kHz]	50 min.[fn+15kHz]	6.0 max.	-	1500	6
CFWLA450KDFA-B0	450.0 (fn)	fn±10.0 min.	50 min.[fn-20kHz]	50 min.[fn+20kHz]	4.0 max.	-	1500	6

Area of Insertion Loss: at minimum loss point  
 Center frequency (fo) is defined by the center of 6dB bandwidth.  
 (fn) means nominal center frequency (450kHz).

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.

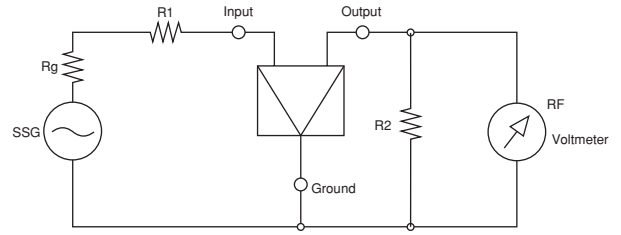
⚠Note • Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.  
 • This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

## Recommended IFT

Item	Type	SFPLA/CFULA/CFWLA		
		7x7mm IFT		
Winding Specification		(1)—(2)	(2)—(3)	(4)—(6)
S(3) (2) (1) (Bottom view)		60T	125T	28T
No load Qu		40		
Tuning Capacitance		180pF		

• Matching of CERAFIL® SFPLA/CFULA/CFWLA series with IFT is decided by the Qu of IFT and IFT secondary side impedance, |Z2|. Set the Qu at about 40 because a Qu value which is too high (e.g., 90) may produce ripple in the waveform. It is recommended to match the impedance of |Z2| with that of the CERAFIL®.

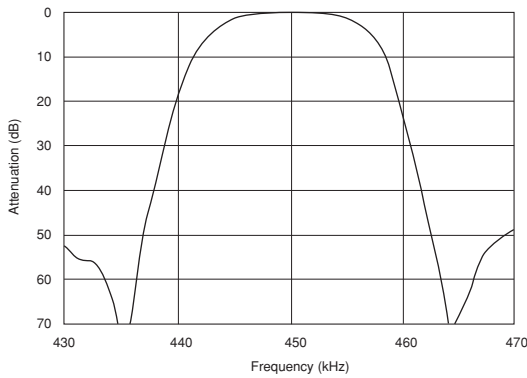
## Test Circuit



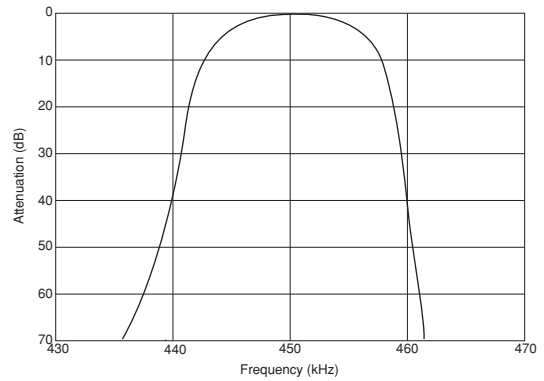
$R_g + R_1 = R_2$  : Input/Output Impedance

## Frequency Characteristics

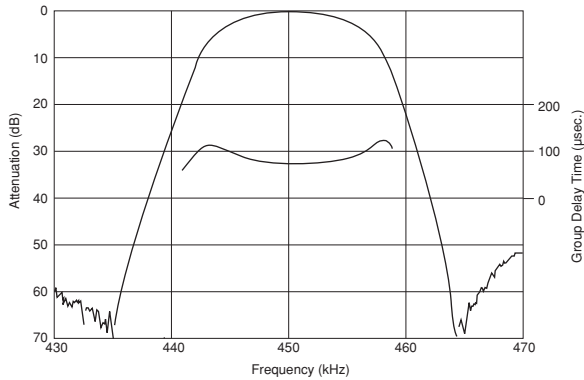
IFT+SFPLA450KF1A-B0



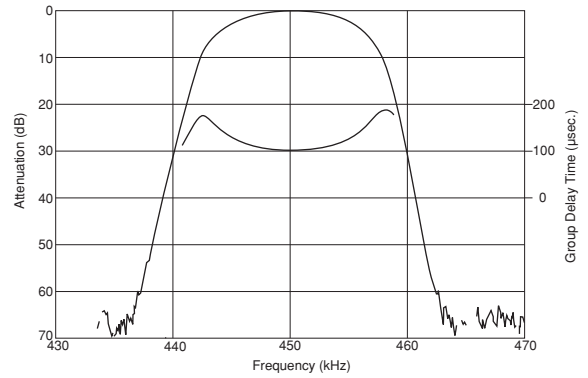
IFT+CFWLA450KFFA-B0



IFT+CFULA450KF1Y-B0



IFT+CFWLA450KF1Y-B0



# CERAFIL<sup>®</sup> 455kHz SF□ Series Temperature Characteristics

## ■ SFPLA450KH1A-B0

