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

P50E.pdf 03.4.16

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

muRata

CERAFIL® 455kHz for AM Stereo Wide Bandwidth Type SFPLA/CFWLA/CFULA Series

■ Features

SFPLA/CFWLA/CFULA series for AM use is one of the most recommendable 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 is the frequency fidelity in the high sound area of an AM stereo will be improved with wide band, flat group delay time characteristics.
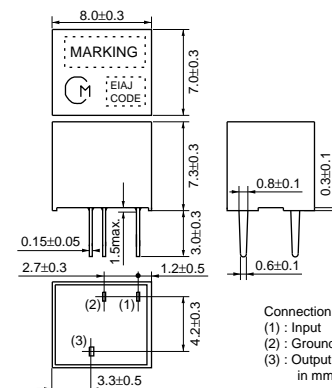

SFPLA Series
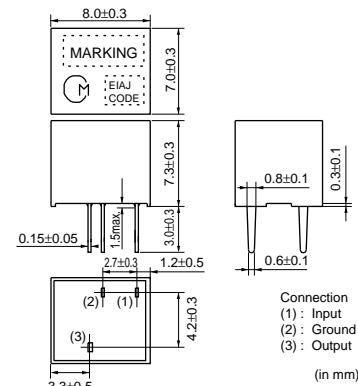
CFWLA Series
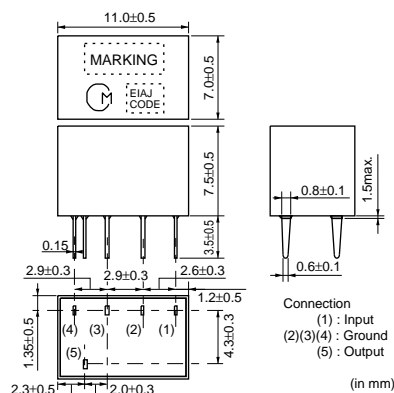
CFULA Series

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 ±1.0kHz	fn±4.5 min.	30 min.[fn+9kHz]	30 min.[fn-9kHz]	6.0 max.	-	2000	4
SFPLA450KF1A-B0	450 ±1.0kHz	fn±6.0 min.	40 min.[fn+12.5kHz]	40 min.[fn-12.5kHz]	6.0 max.	-	2000	4
SFPLA450KE1A-B0	450 ±1.0kHz	fn±7.5 min.	40 min.[fn+15kHz]	40 min.[fn-15kHz]	6.0 max.	-	1500	4
SFPLA450KD1A-B0	450 ±1.0kHz	fn±10.0 min.	40 min.[fn+20kHz]	40 min.[fn-20kHz]	4.0 max.	-	1500	4
CFWLA450KGFA-B0	450 (fn)	fn±4.5 min.	50 min.[fn+10kHz]	50 min.[fn-10kHz]	6.0 max.	-	2000	6
CFWLA450KFFA-B0	450 (fn)	fn±6.0 min.	50 min.[fn+12.5kHz]	50 min.[fn-12.5kHz]	6.0 max.	-	2000	6
CFWLA450KEFA-B0	450 (fn)	fn±7.5 min.	50 min.[fn+15kHz]	50 min.[fn-15kHz]	6.0 max.	-	1500	6
CFWLA450KDFA-B0	450 (fn)	fn±10.0 min.	50 min.[fn+20kHz]	50 min.[fn-20kHz]	4.0 max.	-	1500	6
CFWLA450KG1Y-B0	450 ±1.0kHz	fn±4.5 min.	50 min.[fn+15kHz]	50 min.[fn-15kHz]	11.0 max.	fn±4.0	2000	6
CFULA450KG1Y-B0	450 ±1.0kHz	fn±4.5 min.	40 min.[fn+15kHz]	40 min.[fn-15kHz]	10.0 max.	fn±4.5	2000	4
CFWLA450KF1Y-B0	450 ±1.0kHz	fn±6.0 min.	50 min.[fn+17.5kHz]	50 min.[fn-17.5kHz]	10.0 max.	fn±5.0	2000	6
CFULA450KF1Y-B0	450 ±1.0kHz	fn±6.0 min.	40 min.[fn+17.5kHz]	40 min.[fn-17.5kHz]	9.0 max.	fn±6.0	2000	4
CFWLA450KD1Y-B0	450 ±1.0kHz	fn±10.0 min.	50 min.[fn+25kHz]	50 min.[fn-25kHz]	8.0 max.	fn±8.0	1500	6
CFULA450KD1Y-B0	450 ±1.0kHz	fn±10.0 min.	40 min.[fn+25kHz]	40 min.[fn-25kHz]	7.0 max.	fn±9.0	1500	4

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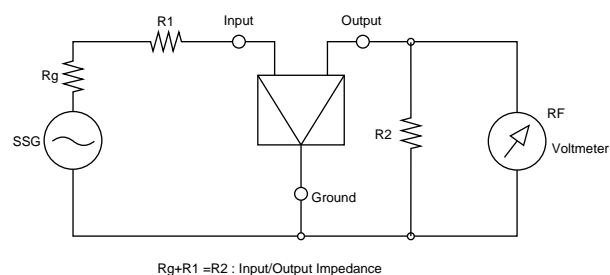
The order quantity should be an integral multiple of the "Minimum Quantity" shown in the package page.

21

muRata

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

P50E.pdf 03.4.16

■ Recommended IFT (7x7)

Item \ Type	SFPLA/CFULA/CFWLA		
Winding Specification	(1)—(2)	(2)—(3)	(4)—(6)
S(3) (2) (1) (4)S (6) (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

Rg+R1 =R2 : Input/Output Impedance

■ Frequency Characteristics

IFT+SFPLA450KF1A-B0

IFT+CFWLA450KFFA-B0

IFT+CFULA450KF1Y-B0

IFT+CFWLA450KF1Y-B0

21