

# FILTERS FOR COMMUNICATIONS EQUIPMENT

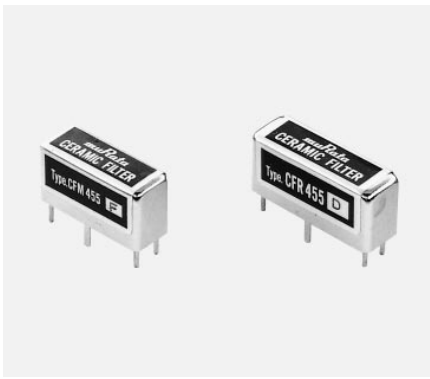
## RESIN MOLDED, MULTI-ELEMENT

### CFM/CFR455 SERIES

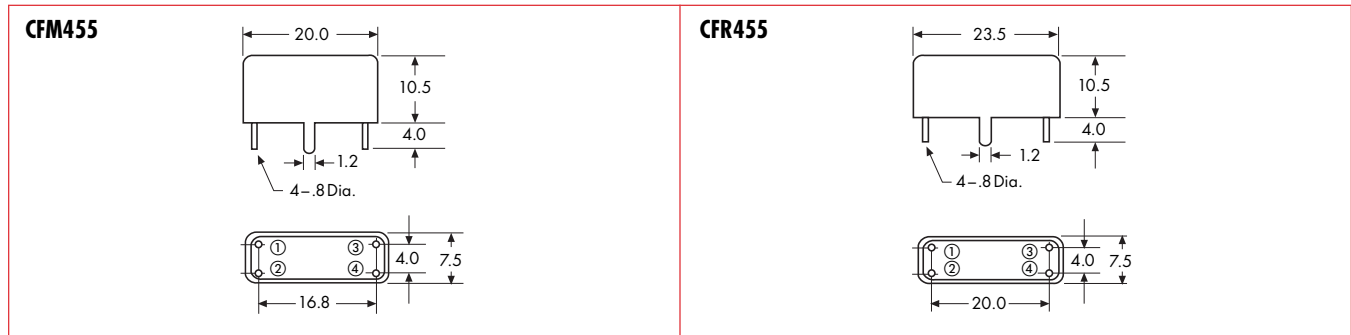


The following lines of filters are high performance devices that achieve ultimate stopband attenuation through the use of multiple piezoelectric elements connected in ladder form. A few of the recommended applications for these filters include high class receivers, SSB communications equipment, pocket pagers and mobile radios.

**CFM455** 9 Ceramic Elements  
**CFR455** 11 Elements Filters



#### DIMENSIONS: mm

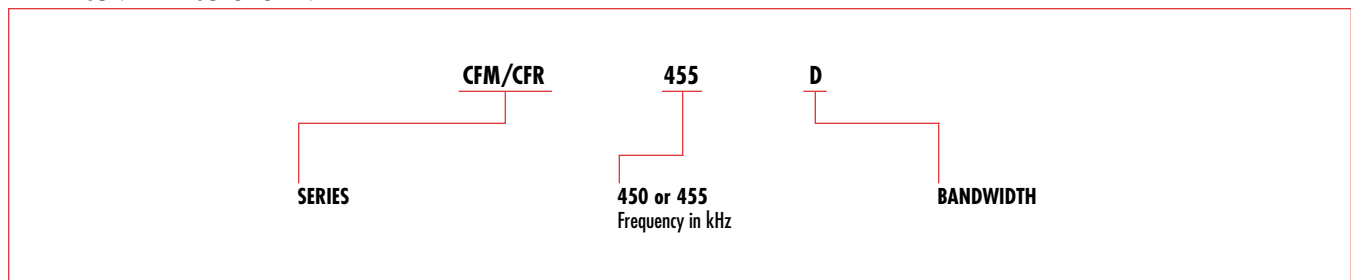


Note: For safety purposes, connect the output of filters to the IF amplifier through a DC blocking capacitor. Avoid applying a direct current to the output of ceramic filters.

#### SPECIFICATIONS

Part Number	Nominal Center Frequency (kHz)	3dB Bandwidth (kHz) min.	6dB Bandwidth (kHz) min.	Ripple (dB) max.	Bandwidth		Attenuation 455±100kHz (dB) min.	Spurious 0.1~1MHz (dB) min.	Insertion Loss (dB) max.	Input/Output Impedance (Ω)
					(kHz) max.	At (dB)				
CFM455A	455	±13	±17.5	3	±30	60	50	30	3	1000
CFM455B	455	±10	±15	3	±25		50	30	3	1000
CFM455C	455	±9	±13	3	±23		50	30	3	1000
CFM455D	455	±7	±10	3	±20		50	30	3	1500
CFM455E	455	±5.5	±8	3	±16		45	30	5	1500
CFM455F	455	±4.2	±6	3	±12		45	30	6	2000
CFM455G	455	—	±4	3	±10		45	30	6	2000
CFM455H	455	—	±3	3	±7.5		45	30	6	2000
CFM455I	455	—	±2	3	±5		45	30	7	2000
CFR455A	455	±13	±17.5	3	±30	70	60	40	4	1000
CFR455B	455	±10	±15	3	±25		60	40	4	1000
CFR455C	455	±9	±13	3	±23		60	40	4	1000
CFR455D	455	±7	±10	3	±20		60	40	4	1500
CFR455E	455	±5.5	±8	3	±16		55	40	6	1500
CFR455F	455	±4.2	±6	3	±12		55	40	6	2000
CFR455G	455	—	±4	3	±10		55	40	6	2000
CFR455H	455	—	±3	3	±7.5		55	40	7	2000
CFR455I	455	—	±2	3	±5		55	40	8	2000
CFR455J	455	—	±1.5	3	±4.5	55	40	8	2000	

#### PART NUMBERING SYSTEM



\*Applicable in North American market only. \*Applicable in European market only.  
 For more detailed information regarding this product line in North America, see Catalog No. P-05-D. To receive additional information on Murata Products call 1-800-831-9172.  
 For more detailed information regarding this product line in Europe, see Catalog No. P05E-8.