SURFACE MOUNTED CHIP PIEZOELECTRIC CERAMICS FILTERS FOR AM AND FM APPLICATIONS

muRata

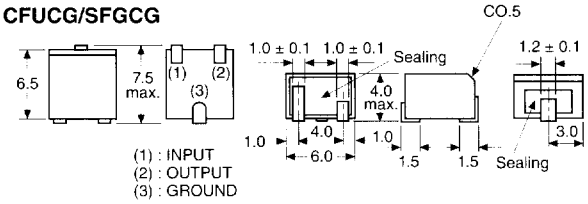
SFGCG, SFPC, CFUCG 455 KHz/SFECA 10.7MHz

Along with the development of the AM chip filter, IF filters for AM/FM radios have also been made smaller, thinner and in a chip configuration for surface mounting. This is one more example of Murata Electronics' leadership in converting conventional electronic components to chip technology.

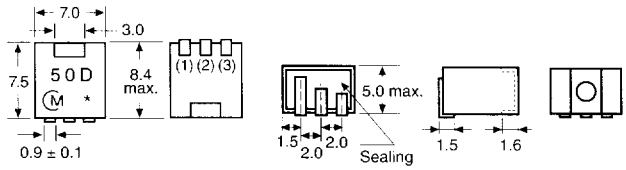
PRELIMINARY SPECIFICATIONS — SMD 455KHz

Part Number	Center Frequency		Bandwidth (Total)			Ripple (max.)		*Insertion Loss (max.) dB	Stop Band Atten. (min.) at ± 100KHz dB	Group Delay (max.)		Source And Load Impedance (Ω)
	Nom. (KHz)	Tol. ± (KHz)	3dB (min.) (KHz)	6dB (min.) (KHz)	40dB (max.) (KHz)	dB	Point of Measure			μS	Point of Measure	
CFUCG455E-TC	455	1.5	—	15	30	1.5	±5	6	27	—	—	1500
CFUCG455F-TC	455	1.5	—	12	25	1.5	±4	6	27	—	—	1500
CFUCG455G-TC	455	1	—	9	20	1.5	±3	6	25	—	—	1500
CFUCG455FX-TC	455	1.5	—	12	30	1	±4	6	27	25	±4	1500
CFUCG455GX-TC	455	1	—	9	25	1	±3	6	25	25	±3	1500
CFUCG455HX-TC	455	1	—	6	20	1	±2	7	25	25	±2	1500
SFGCG455AX2-TC	455	—	28	—	70	1	±10	5	25	15	±10	1000
SFGCG455BX-TC	455	1.5	—	30	70	1	±10	5	25	15	±10	1000
SFGCG455CX-TC	455	1.5	—	25	60	1	±8	6	25	15	±8	1000
SFGCG455DX-TC	455	1	—	20	50	1	±7	7	23	20	±7	1500
SFGCG455EX-TC	455	1	—	15	40	1	±5	8	23	20	±5	1500
SFPC455E-TC	455	1.5	—	15	30	1.5	±5	6	27	—	—	1500
SFPC455F-TC	455	1.5	—	12	25	1.5	±4	6	27	—	—	1500
SFPC455G-TC	455	1	—	9	20	1.5	±3	6	25	—	—	1500
SFPC455H-TC	455	1	—	6	—	1.5	±2	6	35	—	—	2000

DIMENSIONS: mm
CFUCG/SFGCG



SFPC

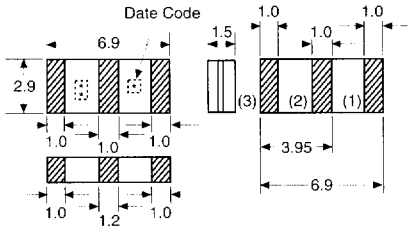


***Note:** For safety purposes, connect the output of filters to the IF amplifier through a DC blocking capacitor. Avoid applying a direct current to the output of ceramic filters.

SPECIFICATIONS — SFECA10.7MA5/MS2/MS3

Center Frequency (f_0)	A: 10.70MHz ± 30KHz Z: 10.70MHz, ± 90KHz		
	SFECA10.7MA5-A-TC	SFECA10.7MS2-A-TC	SFECA10.7MS3-A-TC
3dB bandwidth	280KHz ± 50KHz	230KHz ± 50KHz	180KHz ± 40KHz
Insertion loss	6dB max.	6dB max.	7.0dB max.
Spurious attenuation	30dB min. (9 to 12MHz)	30dB min. (9 to 12MHz)	30dB min. (9 to 12MHz)
1/0 match impedance	330Ω	330Ω	330Ω

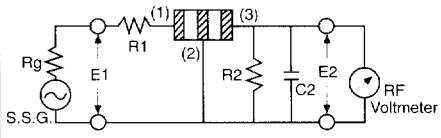
DIMENSIONS: mm
SFECA10.7MA5/MS2/MS3



1=INPUT
2=GROUND
3=OUTPUT

Packaging Units: 2000pcs/reel (180 mmD)

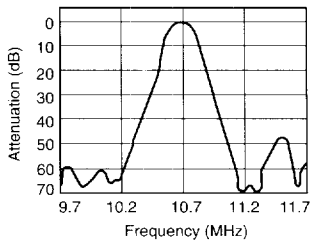
TEST CIRCUIT



R1+Rg=R2=330ohms ± 1%

C=10pF ± 1pF (Including stray capacitance and input capacitance of RF Voltmeter)

CHARACTERISTICS (Typ.)



FILTERS