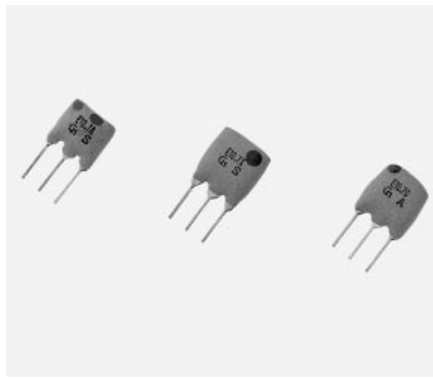


FILTERS

FOR FM APPLICATIONS—HIGHLY SELECTIVE G.D.T. FLAT TYPE SFE MX/MA8/ML 10.7MHz

Murata

Innovator in Electronics



The SFE 10.7MX/MA8/ML lines of ceramic filters were designed to minimize the dispersion of amplitude and phase characteristics within the pass band. Because the excellent G.D.T. characteristics of these filters insure signal integrity, they are recommended for use in applications ranging from high grade stereo receivers to digital transmission systems.

FEATURES

- Little dispersion of amplitude characteristics and phase characteristics (G.D.T. characteristics)
- The SFE 10.7 MX Series has G.D.T. characteristics and is useful for obtaining

low distortion. SFE 10.7 ML 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 if mismatching condition, they can keep little distortion because of low Qm of ceramic material. The SFE 10.7 MA8 Series is based on SFE 10.7 MA5/MS2/MS3, 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.

- All products are inspected for symmetry and roundness of amplitude

DIMENSIONS

MX SERIES Low Distortion	MA8 SERIES High Selectivity, Low Loss	ML SERIES Selectivity	TEST CIRCUIT
			<p> $R_1 + R_g = R_2 = 330\Omega$ $C = 10\text{pF}$ (including stray capacitance and input capacitance of RF Voltmeter) </p> <p> ① INPUT ② GROUND ③ OUTPUT </p>

SPECIFICATIONS

SFE MX/MA8/ML SERIES

	Part Number	3dB Bandwidth (kHz)	20dB Bandwidth (kHz) max.	Insertion Loss (dB) max.	Spurious (9~12MHz) (dB) min.	Ripple w/n 3dB Bandwidth (dB)	G.D.T. Bandwidth (kHz) min.
MX Series	SFE10.7MX-A	250 ± 40	670 (620)	12 (10)	25 (33)	0 max.	0.2μ sec. fo ±110kHz
	SFE10.7MX2-A	220 ± 40	610 (560)	12.5 (10.5)	30 (37)	0 max.	0.15μ sec. fo ±80kHz
	SFE10.7MZ1-A	180 ± 30	530 (460)	14 (12.3)	33 (38)	0 max.	0.15μ sec. fo ±60kHz
	SFE10.7MZ2-A	150 ± 30	500 (420)	14 (12.6)	35 (41)	0 max.	0.15μ sec. fo ±50kHz
MA8 Series	SFE10.7MA8-A	280 ± 50	650 (520)	6 (4)	30 (43)	0.5 max.	0.5μ sec. fo ±80 (±100)
	SFE10.7MS2G-A	230 ± 50	600 (420)	7 (4.5)	40 (45)	0 max.	0.5μ sec. fo ±60 (±75)
	SFE10.7MS3G-A	180 ± 40	520 (380)	7 (5)	40 (45)	0 max.	0.5μ sec. fo ±45 (±60)
ML Series	SFE10.7ML-A	280 ± 50	700 (610)	9 (7)	25 (33)	0 max.	0.25μ sec. fo ±70 (±105)
	SFE10.7MP3-A	250 ± 50	650 (550)	10 (8)	30 (35)	1.0 max.	0.25μ sec. fo ±65 (±90)
	SFE10.7MM-A	230 ± 50	600 (510)	11 (9)	30 (38)	0 max.	0.25μ sec. fo ±60 (±85)

• Input/output impedance: 330Ω

• The rank of center frequency is available in two series: 30kHz steps and 25kHz steps.

• The G.D.T. waveforms of all these types are controlled.

() Typical value

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. P61E-4.