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# DEMINT

## Electronics Co., Ltd.

### (XT MB)

# Ceramic Trap Filters

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**▶ Product Introduction****DeMint (XT MB) for TV/VCR Stage is Murata Trap Filters TPS MB Compatible.****(XT MB) Trap Filter Quick Selection :**

- Dimensions (Unit: mm): 10.0 Max. × 8.0 Max. × 4.0 Max..
- XT3.58MB Cener Frequency  $f_0$ :3.580MHz; 25db Min. @ $f_0$ ; 40(kHz)Min.@25dB Att BW
- XT4.43MB Cener Frequency  $f_0$ :4.430MHz; 30db Min. @ $f_0$ ; 50(kHz)Min.@30dB Att BW
- XT4.5MB Cener Frequency  $f_0$ :4.500MHz; 35db Min. @ $f_0$ ; 70(kHz)Min.@30dB Att BW
- XT5.5MB Cener Frequency  $f_0$ :5.500MHz; 35db Min. @ $f_0$ ; 90(kHz)Min.@30dB Att BW
- XT5.74MB Cener Frequency  $f_0$ :5.742MHz; 35db Min. @ $f_0$ ; 90(kHz)Min.@30dB Att BW
- XT6.5MB Cener Frequency  $f_0$ :6.500MHz; 35db Min. @ $f_0$ ; 90(kHz)Min.@30dB Att BW

DeMint Trap is employing piezoelectric technology's mechanical resonance, it is almost unaffected by the surrounding circuits, and its characteristics do not deviate when it is implanted in the printed circuit and no adjustment is required.

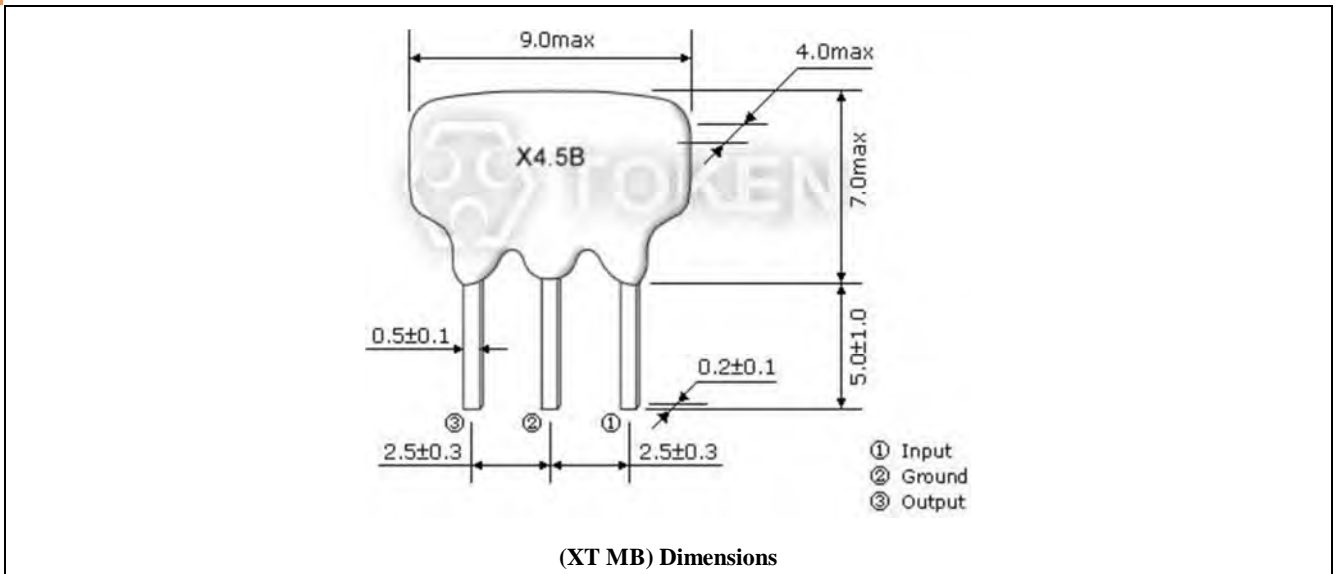
Utilize DeMint special piezoelectric materials, DeMint trap filters has a high Q compared with IFT and a high selectivity is obtained. It also has a remarkable frequency temperature coefficient, high selectivity and high stability.

In TV set, video signal is used in picture amplitude circuit after video signal detection block, ceramic resonator is inserting here and trap circuit is formed in order to eliminate sound signal involved in video signal.

DeMint (XT MB) Series are band reject type used for video and sound IF attenuation. The 3 terminal XT MB Series contains 2 elements on one substrate for additional attenuation. XT MB Series can be used in the sound IF of CATV/VCR receivers.

The (XT MB) series is lead-free and RoHS compliant. DeMint will also produce devices outside these specifications to meet specific customer requirements, contact us with your specific needs. For more information, please link to DeMint official website "[Ceramic Trap Filters](#)".

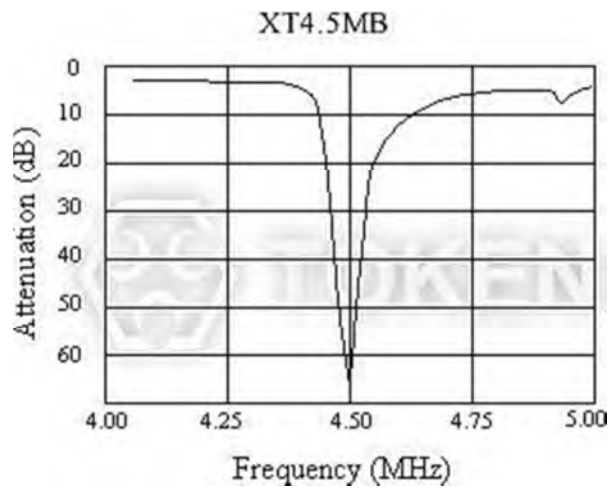


**▶ Dimensions****Dimensions (Unit: mm) (XT MB)**

## ► Characteristics

### Characteristics (XT MB)

Part Number	Center Frequency (fo1)(MHz)	Attenuation (at fo1)(dB)Min.	30dB Attenuation BW (fo1)(kHz)Min.
XT3.58MB	3.580	25	40(25dB Att.BW)
XT4.43MB	4.430	30	50
XT4.5MB	4.500	35	70
XT5.5MB	5.500	35	90
XT5.74MB	5.742	35	90
XT6.5MB	6.500	35	90

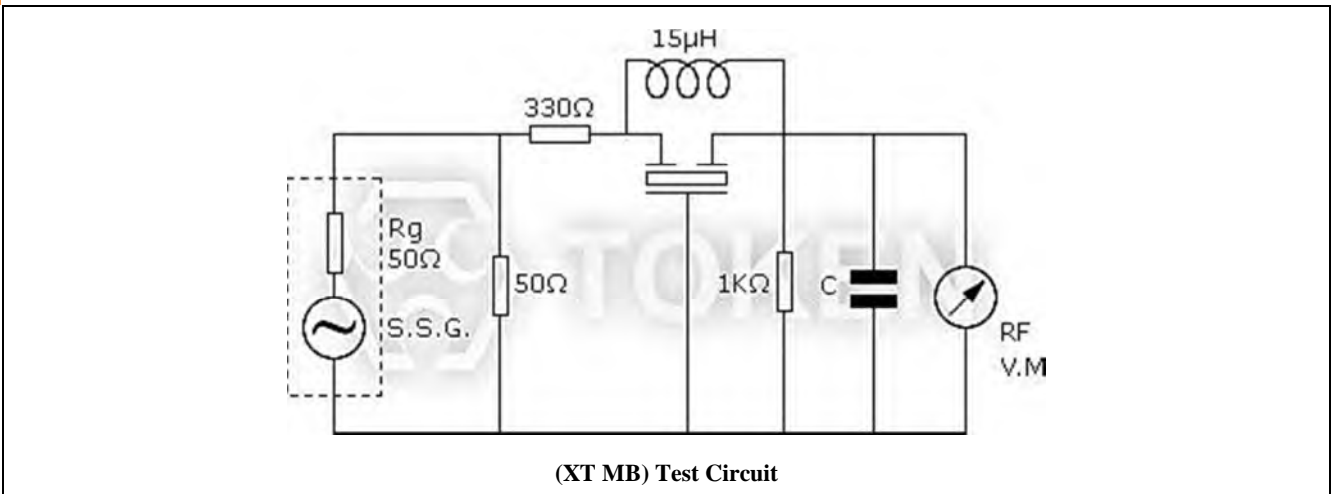


(XT MB) Characteristics

- The level at 1MHz shall be made for a reference (0dB).

▶ **Test Circuit**

**Test Circuit (XT MB)**



▶ **Order Codes**

**Order Codes (XT MB)**

<b>XT3.58MB</b>	<b>P</b>
Part Number	Package

▶ **General Information**

**Advantage of DeMint Piezoelectric Trap Filters**

DeMint Electronics had been able to develop specialized piezo materials which when combined with an advance design have resulted in a complete line of practical, inexpensive piezo devices for entertainment and communications applications.

DeMint reliably deliver high-quality components according to the each customer special needs with respect to performance, costs, and technology modifications.

For marketing discontinuations or sourcing activities concerning Piezoelectric "Trap" products, you are encouraged to contact our Sales Department so the request can be properly directed within DeMint.