Ceramic Trap Filters

Token Electronics Industry Co., Ltd.

Taiwan: No.137, Sec. 1, Zhongxing Rd., Wugu District, New Taipei City, Taiwan, R.O.C. 24872
Tel: +886 2981 0109  Fax: +886 2988 7487

China: 12F, Zhong Xing Industry Bld., Chuang Ye Road, Nan Shan District, Shen Zhen City, Guang Dong, China 518054
Tel: +86 755 26055363; Fax: +86 755 26055365

Web: www.token.com.tw
Email: rfq@token.com.tw
Product Introduction

Token (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

Token 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 Token special piezoelectric materials, Token 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.

Token (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. Token will also produce devices outside these specifications to meet specific customer requirements, contact us with your specific needs. For more information, please link to Token official website “Ceramic Trap Filters”.

http://www.token.com.tw
rfq@token.com.tw

Taiwan Factory: +886 2 29810109
China Factory: +86 755 26055363
Dimensions

Dimensions (Unit: mm) (XT MB)

(XT MB) Dimensions
# Characteristics

## Characteristics (XT MB)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Center Frequency (fo1)(MHz)</th>
<th>Attenuation (at fo1)(dB) min</th>
<th>30dB Attenuation BW (fo1)(kHz) min</th>
</tr>
</thead>
<tbody>
<tr>
<td>XT3.58MB</td>
<td>3.580</td>
<td>25</td>
<td>40(25dB Att. BW)</td>
</tr>
<tr>
<td>XT4.43MB</td>
<td>4.430</td>
<td>30</td>
<td>50</td>
</tr>
<tr>
<td>XT4.5MB</td>
<td>4.500</td>
<td>35</td>
<td>70</td>
</tr>
<tr>
<td>XT5.5MB</td>
<td>5.500</td>
<td>35</td>
<td>90</td>
</tr>
<tr>
<td>XT5.74MB</td>
<td>5.742</td>
<td>35</td>
<td>90</td>
</tr>
<tr>
<td>XT6.5MB</td>
<td>6.500</td>
<td>35</td>
<td>90</td>
</tr>
</tbody>
</table>

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

Test Circuit (XT MB)

Order Codes

Order Codes (XT MB)

<table>
<thead>
<tr>
<th>XT3.58MB</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part Number</td>
<td></td>
</tr>
</tbody>
</table>

General Information

Advantage of Token Piezoelectric Trap Filters

Token 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.

Token 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 Token.