Double Trap Filters

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Token (XT MW) are Murata Double Trap Filters TPWA Series Compatible.

(XT MW) Double Trap Filter Quick Selection:

- Dimensions (Unit: mm): 10.0 max × 8.0 max × 4.0 max.
- XT4.47MW Center Frequency \( f_{01} \): 4.500MHz; Center Frequency \( f_{02} \): 4.724MHz; 30db min @ \( f_{01} \) & \( f_{02} \); 50(kHz)min@\( f_{01} \) 30dB Att BW
- XT4.60MW Center Frequency \( f_{01} \): 4.500MHz; Center Frequency \( f_{02} \): 6.000MHz; 30db min @ \( f_{01} \) & \( f_{02} \); 50(kHz)min@\( f_{01} \) 30dB Att BW
- XT5.57MW Center Frequency \( f_{01} \): 5.500MHz; Center Frequency \( f_{02} \): 5.742MHz; 30db min @ \( f_{01} \) & \( f_{02} \); 50(kHz)min@\( f_{01} \) 30dB Att BW
- XT5.60MW Center Frequency \( f_{01} \): 5.500MHz; Center Frequency \( f_{02} \): 6.000MHz; 30db min @ \( f_{01} \) & \( f_{02} \); 50(kHz)min@\( f_{01} \) 30dB Att BW
- XT5.65MW Center Frequency \( f_{01} \): 5.500MHz; Center Frequency \( f_{02} \): 6.500MHz; 30db min @ \( f_{01} \) & \( f_{02} \); 50(kHz)min@\( f_{01} \) 30dB Att BW
- XT6.65MW Center Frequency \( f_{01} \): 6.000MHz; Center Frequency \( f_{02} \): 6.500MHz; 30db min @ \( f_{01} \) & \( f_{02} \); 70(kHz)min@\( f_{01} \) 30dB Att BW

Traps filter is a ceramic filter passes only particular frequency. To the contrary, Band Eliminate Filter (B. E. F.) which blocks or attenuates particular frequency is called trap.

Sound trap for TV set is one of the famous examples of B. E. F. 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 Double Trap Filter (XT MW) Series consist of 2 wafers with 2 trap frequencies. Recommended for Multi standard set. Features with good performance of attenuation and space saving with 3-terminal type. The characteristic of a three-terminal ceramic trap equals two two-terminal ceramic traps. Three-terminal ceramic trap has a monolith structure formed from 2 ceramic resonators.

Full line products meet 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”.
Double Trap Filters (XT MW)

Dimensions (XT MW)

(XT MW) Dimensions

Dimensions (XT MW)

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### Characteristics (XT MW)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Center Frequency (fo1)(MHz)</th>
<th>Center Frequency (fo2)(MHz)</th>
<th>Attenuation (at fo1) (dB)min</th>
<th>Attenuation (at fo2) (dB)min</th>
<th>30dB Attenuation BW (fo1)(kHz)min</th>
</tr>
</thead>
<tbody>
<tr>
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<td>4.500</td>
<td>4.724</td>
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<td>30</td>
<td>50</td>
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<tr>
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<td>30</td>
<td>50</td>
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<tr>
<td>XT6.65MW</td>
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<td>6.500</td>
<td>30</td>
<td>30</td>
<td>70</td>
</tr>
</tbody>
</table>

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

![Graph of XT6.65MW](image-url)
## 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.