SAW Filter 915.0MHz  
Model: TA1423A  
Part No: MP06992  
Rev No: 4

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -40°C to +125°C
4. Storage Temperature: -40°C to +125°C
5. Moisture Sensitive Level (MSL): Level 3

B. ELECTRICAL CHARACTERISTICS:

1. Terminating source impedance: $Z_S = 50\Omega$
2. Terminating load impedance: $Z_L = 50\Omega$

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Frequency Fc</td>
<td>MHz</td>
<td>-</td>
<td>915</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (902 ~ 928MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>1.9</td>
<td>2.5</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude ripple (902 ~ 928MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.8</td>
<td>1.5</td>
<td>-</td>
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<tr>
<td>VSWR (902 ~ 928MHz)</td>
<td></td>
<td>-</td>
<td>1.6</td>
<td>2</td>
<td>-</td>
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<tr>
<td>Group Delay Deviation (902 ~ 928MHz)</td>
<td>ns</td>
<td>-</td>
<td>11</td>
<td>50</td>
<td>-</td>
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<tr>
<td>Attenuation (reference level from 0dB)</td>
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<td></td>
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<tr>
<td>10 ~ 800MHz</td>
<td>dB</td>
<td>42</td>
<td>46</td>
<td>-</td>
<td>-</td>
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<tr>
<td>800 ~ 845MHz</td>
<td>dB</td>
<td>40</td>
<td>44</td>
<td>-</td>
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<tr>
<td>845 ~ 880MHz</td>
<td>dB</td>
<td>35</td>
<td>38</td>
<td>-</td>
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<tr>
<td>947 ~ 970MHz</td>
<td>dB</td>
<td>13</td>
<td>28</td>
<td>-</td>
<td>-</td>
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<tr>
<td>970 ~ 1020MHz</td>
<td>dB</td>
<td>33</td>
<td>47</td>
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<tr>
<td>1020 ~ 1200MHz</td>
<td>dB</td>
<td>35</td>
<td>43</td>
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<tr>
<td>1200 ~ 3000MHz</td>
<td>dB</td>
<td>28</td>
<td>34</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Temperature Coefficient of Frequency</td>
<td>ppm/°C</td>
<td>-</td>
<td>-36</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
C. OUTLINE DRAWING:

- Top view
- Bottom view
- Side view

D. MEASUREMENT CIRCUIT:

- 50Ω

E. PCB FOOTPRINT:

- Land Pattern
- Unit: mm
F. FREQUENCY CHARACTERISTICS:

![Graph of Frequency Characteristics]

1. Center 915 MHz, IFBW 3 kHz, Span 60 MHz
2. Center 915 MHz, IFBW 3 kHz, Span 300 MHz
3. Center 915 MHz, IFBW 3 kHz, Span 3 kHz

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Reflection Functions

S11

S22
G. PACKING:

1. Reel Dimension

2. Tape Dimension

Direction of Feed
H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150 ~ 180°C for 60 ~ 90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50 ~ 80 seconds and at 245 ~ 260°C peak (min. 10 sec).
4. Time: 2 times.

![Reflow Profile Diagram]