376.60MHz SAW Filter
Part No: MA09514

A. MAXIMUM RATINGS:
1. Input Power Level: 10 dBm
2. Operating Temperature: -20°C to 80°C
3. Storage Temperature: -40°C to 80°C

B. ELECTRICAL CHARACTERISTICS:
1. Ambient Temperature: 25°C

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Value</th>
<th>Note</th>
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<tbody>
<tr>
<td>Center frequency FC</td>
<td>376.6</td>
<td>-</td>
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<tr>
<td>Minimum Insertion loss I.L.</td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td>1 dB Bandwidth</td>
<td>75</td>
<td>80</td>
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<tr>
<td>20 dB Bandwidth</td>
<td>-</td>
<td>94</td>
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<tr>
<td>Amplitude Ripple (FC ± 37.5MHz)</td>
<td>0.85</td>
<td>1.0</td>
</tr>
<tr>
<td>Input Power</td>
<td>-</td>
<td>+10</td>
</tr>
<tr>
<td>Relative Rejection (Reference to Minimum Insertion loss)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>244.1~319.1 MHz</td>
<td>25</td>
<td>33</td>
</tr>
<tr>
<td>319.1~326.4 MHz</td>
<td>20</td>
<td>30</td>
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C. FREQUENCY CHARACTERISTICS:

(1) wide band of Response: (span: 300MHz)

![Wide Band Response Graph](image1)

**Fig1. S21 Response** Horizontal: 30MHz/Div Vertical: 10dB/Div

(2) Passband of Response: (span: 100MHz)

![Passband Response Graph](image2)

**Fig2. S21 Response** Horizontal: 10MHz/Div Vertical: 1dB/Div
**376.60MHz SAW Filter**  
**Model:** TB0378A  
**Part No:** MA09514  
**REV NO:** 1

### D. TEST CIRCUIT:

![Test Circuit Diagram]

L1=30nH, C1=10pF, L2=27nH, C2=82pF

### E. OUTLINE DRAWING:

![Outline Drawing]

Pin 1: RF input  
Pin 5: RF output  
Pin 4, 8: Case Ground  
Pin 2, 3, 6, 7: Ground  
Unit: mm

- □: Week Code (Follow the table from planner each year)  
- △: Product / Year Code

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TB0378A v1
376.60MHz SAW Filter
Model: TB0378A
Part No: MA09514

F. PACKING:

1. REEL DIMENSION

2. TAPE DIMENSION

Direction of feed
376.60MHz SAW Filter
Part No: MA09514

G. RECOMMENDED REFLOW PROFILE:

![Graph showing temperature over time for reflow profile]