A. MAXIMUM RATING:

1. Input Power Level: 5dBm
2. Operating Temperature: -20°C to 75°C
3. Storage Temperature: -35°C to 85°C

B. ELECTRICAL CHARACTERISTICS:

<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>360</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>Insertion Loss IL</td>
<td>dB</td>
<td>-</td>
<td>4.2</td>
<td>5.0</td>
<td>1</td>
</tr>
<tr>
<td>Passband Ripple in Fc ± 67.7kHz</td>
<td>dB</td>
<td>-</td>
<td>0.4</td>
<td>1.5</td>
<td>1</td>
</tr>
<tr>
<td>Group delay ripple in Fc ± 67.76kHz GD</td>
<td>μs</td>
<td>-</td>
<td>0.5</td>
<td>2.0</td>
<td>1</td>
</tr>
</tbody>
</table>

Attenuation: (Reference level from Min IL)

| Fc ± 0.4 to Fc ± 0.6MHz                    | dB   | 29   | 40   | -    |
| Fc ± 0.6 to Fc ± 0.8MHz                    | dB   | 42   | 70   | -    |
| Fc -0.8 to Fc -3.0MHz                      | dB   | 50   | 61   | -    |
| Fc -3.0 to Fc -57MHz                       | dB   | 52   | 62   | -    |
| Fc -57 to Fc -77MHz                        | dB   | 49   | 69   | -    |
| Fc -77 to Fc -115MHz                       | dB   | 52   | 69   | -    |
| Fc +0.8 to Fc +1.6MHz                      | dB   | 50   | 61   | -    |
| Fc +1.6 to Fc +3.0MHz                      | dB   | 45   | 65   | -    |
| Fc +3.0 to Fc +115MHz                      | dB   | 52   | 58   | -    |

Note 1. The standard definitions is in JIS C 6703

![Source impedance](https://example.com/source_impedance.png) ![Load impedance](https://example.com/load_impedance.png)

Source impedance: Z_{in}=949Ω // -2.84pF
Load impedance: Z_{out}=949Ω // -2.84pF
C. OUTLINE DRAWING:
D. MEASUREMENT CIRCUIT:

1. 50Ohm Test circuit 1

HP Network analyzer

```
50Ω 47nH 50Ω 47nH 50Ω 47nH 50Ω
  |      |      |      |      |
  5 4 3  |      |      |      |      |
  |      | 47nH |      | 47nH |      |
  |      |      | 3,4,7,8 |
  |      |      |      |
```

2. 50Ohm Test circuit 2

HP Network analyzer

```
50Ω 3.3pF 56nH 50Ω 3.3pF 50Ω 3.9pF 50Ω
  |      |      |      |      |      |      |      |
  5 4 3 6  |      |      |      |      |      |      |
  |      | 3.9pF |      |      | 3.9pF |      |
  |      |      | 3,4,7,8 |      | 3,4,7,8 |
  |      |      |      |      |      |
```

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

![Frequency Response Graph]

**SAW Filter 360.0MHz**

**Part No:** MA05176

**Model:** TB360EC

**Rev No:** 5

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**FREQUENCY CHARACTERISTICS:**

![Detailed Frequency Response Graph]

**SAW Filter 360.0MHz**

**Part No:** MA05176

**Model:** TB360EC

**Rev No:** 5

---

**FREQUENCY CHARACTERISTICS:**

![Frequency Response Graph]

**SAW Filter 360.0MHz**

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**FREQUENCY CHARACTERISTICS:**

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**FREQUENCY CHARACTERISTICS:**

![Frequency Response Graph]
SAW Filter 360.0MHz
Part No: MA05176
Rev No: 5

TB360EC v5
G. PACKING:

1. Reel Dimension

![Diagram showing reel dimension]

Note 1. Pocket position relative to sprocket hole measured as true position of pocket, not pocket hole.

2. Tape Dimension

![Diagram showing tape dimension]

Note 1. Pocket position relative to sprocket hole measured as true position of pocket, not pocket hole.
H. RECOMMENDED REFLOW PROFILE:

![Recommended Reflow Profile Graph]

- **Temp (Deg C)**
- **Time (Sec)**