A. MAXIMUM RATING:

1. Operating Temperature: -5°C ~ +85°C
2. Storage Temperature: -55°C ~ +80°C
3. Input Power Level: 10dBm

B. CHARACTERISTICS:

Ambient Temperature: 25°C

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Value</th>
<th>Note.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency Fc MHz</td>
<td>-</td>
<td>140.0</td>
</tr>
<tr>
<td>Maximum Insertion loss IL dB</td>
<td>-</td>
<td>9.6</td>
</tr>
<tr>
<td>1dB Bandwidth MHz</td>
<td>18.0</td>
<td>23.0</td>
</tr>
<tr>
<td>3dB Bandwidth MHz</td>
<td>22.0</td>
<td>25.0</td>
</tr>
<tr>
<td>40dB Bandwidth MHz</td>
<td>-</td>
<td>33.0</td>
</tr>
<tr>
<td>Passband Ripple (Fc ± 9MHz) MHz</td>
<td>-</td>
<td>0.7</td>
</tr>
<tr>
<td>Group Delay Ripple (Fc ± 9MHz) nS</td>
<td>-</td>
<td>80</td>
</tr>
<tr>
<td>Temp Coefficient ppm/°C</td>
<td>-</td>
<td>-94</td>
</tr>
</tbody>
</table>

C. TEST FIXTURE:

![Test Fixture Diagram]

$L_1 = 27\text{nH}$  
$L_2 = 39\text{nH}$  
$C_2 = 82\text{pF}$
D. OUTLINE DRAWING:

L RF: Input
M RF: Input ground
E RF: Output
F RF: Output ground
A, B, C, D, G, H, J, K: To be ground
Unit: mm

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

1. S21 Response

![S21 Frequency Response Graph]

Fig 1: Horizontal: 100MHz/Div Vertical: 10dB/Div

2. Pass band Ripple and Group Delay Ripple

![Pass Band Ripple and Group Delay Ripple Graph]

Fig 2: Horizontal: 3MHz/Div Vertical: 1dB/Div Vertical: 100nS/Div
G. PACKING:

1. REEL DIMENSION

![Reel Dimension Diagram]

2. TAPE DIMENSION

![Tape Dimension Diagram]