1. General
1.1. Package:

1.2. Type name: MQF 70.0-0500/08
1.3. Number of poles: 6
1.4. Operating temperature range: -20°C to +70°C
1.5. Storage temperature range: -45°C to +85°C

2. Electric values
2.1. Nominal center frequency $f_0$: 70.0 MHz
2.1.1. Center frequency at 25°C $f_c$: 70.0 MHz ± 800 Hz

2.2. Pass band
2.2.1. Bandwidth between 3 dB - frequencies: $> f_c ± 1.9$ kHz
2.2.2. Ripple: peak to peak $< 2.5$ kHz
2.2.3. Differential group delay: $< 90$ µs at $f_c ± 1.9$ kHz
2.2.4. Insertion loss: $< 9.0$ dB

( measured on smallest attenuation in pass band )

2.3. Stop band
2.3.1. $f_c ± 9.0$ kHz $> 60$ dB
2.3.2. Alternate attenuation $f_c ± 19$ kHz...±1MHz $> 65$ dB ( except spurious )

2.4. Terminating impedance ( input and output ): 50 $\Omega$ // 0 pF
2.5. Input power level: working / non-damaged 0 dBm / +15 dBm
2.6. Intermodulation ( outband )
frequency 1: $f_c ± 50$ kHz
frequency 2: $f_c ± 100$ kHz
input power level at pin 1( input ): 0 dBm
IM: $> 60$ dB

3. Marking: manufacturer, date code MQF 70.0-0500/08

4. Environment conditions: Corresponding to Vectron standard CF001
5. Reflow profile according to IPC / JEDEC J-STD-020C

Profile Feature | Pb-free assembly
---|---
Average ramp-up rate (TL to Tp) | 3°C / second max.
Average ramp-up rate (Tsmax to TL) | 3°C / second max.
Preheat:
- Temperature Min Tsmin | 150°C
- Temperature Min Tsmax | 200°C
- Time ts (Tsmin to Tsmax) | 60-180 seconds
Time maintained above:
- Temperature TL | 217°C
- Time tL | 60-150 seconds
Peak temperature Tp | 260 ±0/-6°C
Time within 5°C of actual peak temperature Tp | 10-30 seconds
Ramp-down rate | 6°C / second max.
Time 25°C to peak temperature | 8 minutes max.
6. Taping

Maximum 600 pcs. / reel

Drawing out direction

Tape dimension ( mm )

<table>
<thead>
<tr>
<th>Component</th>
<th>Minimum Size</th>
<th>Maximum Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>cover tape</td>
<td>200mm min.</td>
<td></td>
</tr>
<tr>
<td>carrier tape</td>
<td>150mm min.</td>
<td></td>
</tr>
<tr>
<td>components</td>
<td>200mm min.</td>
<td></td>
</tr>
<tr>
<td>leader part</td>
<td>150mm min.</td>
<td>200mm min.</td>
</tr>
<tr>
<td>Trailer cover</td>
<td></td>
<td></td>
</tr>
<tr>
<td>leader part</td>
<td>400mm min.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>200mm min.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>150mm min.</td>
</tr>
</tbody>
</table>

Marking

Maximum 600 pcs. / reel

Tape ( all dimensions in mm )

- W: 44.0 ± 0.3
- So: 40.4 ± 0.1
- Po: 4.0 ± 0.1
- P1: 20.0 ± 0.1
- F: 20.2 ± 0.15
- Ko: 5.1 ± 0.1
- Ao: 13.2 ± 0.1
- Bo: 32.25 ± 0.1
- t: 0.4 ± 0.05

Reel ( all dimension in mm )

- A: ø 330 max.
- C: ø 21.8 ± 0.5
- N: ø 100 min.
- W1: 45.5 ± 0.25
- W2: 49.5 ± 0.5

Edited by: ____________________________ name: ____________________________