Specification for monolithic crystal filter:  **MQF 90.0 – 2000/07**

1. **General**
1.1. Package: 2 x GH 9.4 (each filter consists of a pair of two matched duals)

![Diagram of GH9.4](image)

<table>
<thead>
<tr>
<th>Temperature (°C)</th>
<th>Time (s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>260</td>
<td>max 300s</td>
</tr>
<tr>
<td>217</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

Reflow soldering: three times max.

1.2. Type name: MQF 90.0-2000/07
1.3. Number of poles: 4
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 centre frequency $f_0$: 90.0 MHz

2.2. **Pass band**

2.2.1. Bandwidth between 3 dB - frequencies: $\geq \pm 10$ kHz

2.2.2. Ripple: $\leq 1.0$ dB at $f_0 \pm 7.5$ kHz

2.2.3. Insertion loss: $\leq 3.0$ dB

( measured on smallest attenuation in pass band )

2.3. **Stop band**

2.3.1. $f_0 \pm 40$ kHz $\geq 35$ dB ( except spurious )

2.3.2. $f_0 - 910$ kHz $> 80$ dB ( except spurious )

2.4. Terminating impedance ( input and output ): 3000 $\Omega$ // $- 0.6 \pm 0.2$ pF

2.5. Coupling capacitance $C_k$: $- 0.95 \pm 0.3$ pF

2.6. Input operating power: $< 0$ dBm

3. Marking:

4. Environment conditions: according to Vectron standard CF001

5. Packing: tape and reel with maximum 600 pcs. / reel

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Edited by: __________________________ date: __________________________ name: __________________________