Specification for monolithic crystal filter: \( \text{MQF 45.0-1500/60} \)

1. General
   1.1. Package:

   ![Diagram of GS 3.10 package]

<table>
<thead>
<tr>
<th>Pin</th>
<th>Description</th>
<th>Pins</th>
<th>Max. Allowable Input Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Input</td>
<td>1-2</td>
<td>+20 dBm</td>
</tr>
<tr>
<td>5, 6</td>
<td>Output</td>
<td>5-6</td>
<td>0 dBm</td>
</tr>
<tr>
<td>7</td>
<td>Ground</td>
<td>7</td>
<td></td>
</tr>
</tbody>
</table>

1.2. Type name: MQF 45.0-1500/60  
1.3. Number of poles: 6
1.4. Operating temperature range: -25°C to +70°C  
1.5. Storage temperature range: -45°C to +85°C

2. Electric values
   2.1. Nominal centre frequency \( f_0 \): 45.0 MHz

   2.2. Pass band
       2.2.1. Bandwidth between 3 dB - frequencies: \( > f_0 \pm 7.5 \text{ kHz} \)
       2.2.2. Ripple: \( < 2.0 \text{ dB at } f_0 \pm 6.0 \text{ kHz} \)
       2.2.3. Insertion loss: \( < 5.0 \text{ dB} \)  
       (measured on smallest attenuation in pass band)

   2.3. Stop band
       2.3.1. \( f_0 \pm 25.0 \text{ kHz} \): \( > 60 \text{ dB} \)
       2.3.2. Alternate attenuation \( f_0 \pm 910 \text{ kHz} \): \( > 70 \text{ dB} \) (except spurious)

   2.4. Maximum input level (working/non-damaged): 0 dBm +20 dBm
   2.5. Terminating impedance \( R/C \) (input and output): 50 \( \Omega \) // 0 pF

3. Marking: manufacturer, date code  
   MQF 45.0-1500/60

4. Environment conditions: Corresponding to Vectron standard CF001

5. Filters are Pb-free and 2002/95/EC RoHS compliant

__________________________________________________________

Edited by: ____________________________
   date: ____________________________
   name: ____________________________