Specification for monolithic crystal filter: **MQF 130.05 - 2100/01**

1. **General**
   1.1. **Package:**

   ![Package Diagram]

   Input mark
   Marking

   ![Pin Connection Diagram]

   #1 Input
   #5 Output
   #2,3,4,6,7,8 GND

   Pin connection

   ![Circuit Diagram]

   **C1** R1
   **C2** R2
   **Marking**

   Input: pin 1, pin 2,3,4,6,7,8, pin 5
   Output: GND

2. **Electric values**

   2.1. Nominal centre frequency \( f_0 \):
   
   \[ 130.05 \text{ MHz} \]

   2.2. **Pass band**

   2.2.1. Bandwidth between 3 dB - frequencies:
   
   \[ > f_0 \pm 10.5 \text{ kHz} \]

   2.2.2. Ripple in pass band (peak to peak):
   
   \[ < 1.0 \text{ dB} \]

   2.2.3. Insertion loss:
   
   (measured on smallest attenuation in pass band)
   
   \[ < 5.0 \text{ dB} \]
2.3. **Stop band**

2.3.1. $f_0 \pm 50 \text{ kHz}$ > 20 dB
2.3.2. $f_0 \pm 100 \text{ kHz}$ > 40 dB
2.3.3. $f_0 \pm 200 \text{ kHz}$ > 50 dB
2.3.4. Guaranteed attenuation at $f_0 - 900 \text{ kHz}$: > 70 dB
2.3.5. Spurious responses: > 10 dB

2.4. Terminating impedance (input and output): 200 $\Omega$ // -1.0 pF

2.5. Maximum input power (working/non-damaged): -10 dBm / 0 dBm

3. Environment conditions: Corresponding to Vectron CF001
4. Marking:
   
   M130
   YYWW

5. Reflow soldering conditions (3 times maximum):

   **temperature (°C)**

   ![Graph showing reflow soldering conditions]

   **Reflow soldering: three times max.**

6. Taping:
   tape & reel, 2000 pcs. / reel maximum, reel diameter 180 mm

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Edited by: __________________________ name: __________________________