Specification for monolithic crystal filter: **MQF 21.4-2000/24**

1. General
   1.1. Package:

   ![Package Diagram](image)

1.2. Type name: MQF 21.4-2000/24
1.3. Number of poles: 10
1.4. Operating temperature range: -20°C to +60°C
1.5. Storage temperature range: -35°C to +85°C

2. Electric values
   2.1. Nominal centre frequency $f_0$: 21.4 MHz

2.2. Pass band
   2.2.1. Bandwidth between 3 dB - frequencies: $\geq f_0 \pm 10.0$ kHz
   2.2.2. Ripple: $\leq 2.0$ dB at $f_0 \pm 8.0$ kHz
   2.2.3. Group delay distortion: $< 10$ µs at $f_0 \pm 4.0$ kHz
   2.2.4. Insertion loss: $\leq 5.0$ dB
       (measured on smallest attenuation in pass band)

2.3. Stop band
   2.3.1. $f_0 \pm 25$ kHz: $\geq 80$ dB
   2.3.2. $f_0 \pm 100$ kHz.......5 MHz: $\geq 90$ dB (except spurious)

2.4. Terminating impedance (input and output): 50 Ω // 0 pF

2.5. Intermodulation
   - frequency 1: 21.00 MHz / 21.20 MHz
   - frequency 2: 21.60 MHz / 21.80 MHz
   - input power: -6 dBm
   - IM: $> 80$ dB

3. Marking: manufacturer, date code
   MQF 21.4-2000/24

4. Environment conditions: Corresponding to Vectron standard CF001

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Edited by: ____________________________ date: ____________________________ name: ____________________________