Specification for monolithic crystal filter:  

**MQF 21.4 - 3000/46**

1. General

1.1. Package (soldered hermetic sealed):

1.2. Type name: MQF 21.4-3000/46

1.3. Number of poles: 8

1.4. Operating temperature range: -40°C to +85°C

1.5. Storage temperature range: -45°C to +90°C

2. Electric values

2.1. Nominal centre frequency \( f_0 \): 21.4 MHz

2.2. Pass band

2.2.1. Bandwidth (\( B_{3dB} \)) between 3 dB - frequencies: \( B_{3dB} \geq f_0 \pm 15 \text{ kHz} \)

2.2.2. Range of Bandwidth at 6 dB (\( B_{6dB} \)): 31 kHz < \( B_{6dB} < 38 \text{ kHz} \)

2.2.3. Ripple: \( \leq 2.0 \text{ dB at } f_0 \pm 10 \text{ kHz} \)

2.2.4. Insertion loss: \( \leq 4.0 \text{ dB} \) (measured on smallest attenuation in pass band)

2.3. Stop band

2.3.1. \( f_0 \pm 35 \text{ kHz} \) \( \geq 65 \text{ dB} \)

2.3.2. \( f_0 \pm 50 \text{ kHz} \) \( \geq 80 \text{ dB} \)

2.3.3. Alternate attenuation \( \geq 80 \text{ dB (except spurious)} \)

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

3. Marking: manufacturer, date code  
MQF 21.4-3000/46

4. Environment conditions: Corresponding to Vectron standard CF001

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Edited by: __________________________ name: __________________________