Specification for monolithic crystal filter: **MQF 21.4 - 3000 / 42**

1. **General**

1.1. Package: 2 x GH9 (each filter consists of a pair of two matched packages GH9)

![Package Diagram]

1.2. Type name: MQF 21.4-3000/42

1.3. Number of poles: 4

1.4. Operating temperature range: -20°C to +70°C

1.5. Storage temperature range: -25°C to +85°C

2. **Electric values**

2.1. Nominal centre frequency fo: 21.4 MHz

2.2. **Pass band**

2.2.1. Bandwidth between 3 dB - frequencies: \( \geq fo \pm 15.0 \text{ kHz} \)

2.2.2. Ripple: Gaussian

2.2.3. Group delay distortion: \(< 4.0 \mu\text{s at } fo \pm 15 \text{ kHz} \)

2.2.4. Insertion loss: \( \leq 3.0 \text{ dB} \)

( measured on smallest attenuation in pass band )

2.3. **Stop band**

2.3.1. \( fo \pm 70 \text{ kHz} \)

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

2.4. Terminating impedance (input and output): 5000 \( \Omega \) // -0.8 pF

2.4.1. Coupling capacitance \( C_c \): 2.0 pF

3. **Marking:**

   - manufacturer, date code
   - 21.4-3000/42

4. **Environment conditions:**

   Corresponding to Vectron standard CF001

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Edited by: ____________________________ name: ____________________________

date: ____________________________