Specification for monolithic crystal filter:  **MQF 21.4-1500/24V0**

1. General
1.1. Package:

![](image)

1.2. Type name: MQF 21.4-1500/24V0
1.3. Number of poles: 6
1.4. Operable temperature range: -20°C to +85°C
1.5. Operating temperature range: -10°C to +0°C
1.6. Storage temperature range: -40°C to +90°C

2. Electric values
2.1. Nominal centre frequency fo: 21.4 MHz
2.2. Pass band
2.2.1. Centre frequency fc: 21.4 MHz ± 750 Hz
2.2.2. Bandwidth between 3 dB - frequencies: ≥ fc ± 7.5 kHz
2.2.3. Reflection loss: ≥ 10 dB at fc ± 6.0 kHz
2.2.4. Ripple: ≤ 1.5 dB at fc ± 6.0 kHz
2.2.5. Insertion loss: ≤ 4.0 dB (measured on smallest attenuation in pass band)

2.3. Stop band
2.3.1. fc ± 20 kHz ≥ 60 dB
2.3.2. fc ± 150 kHz........± 5 MHz ≥ 90 dB
2.4. Terminating impedance (input and output): 50 Ω ± 10 % // 0 pF
2.5 Intermodulation
IP 3: >30 dBm
frequency 1: 21.370 MHz / 21.385 MHz
frequency 2: 21.415 MHz / 21.430 MHz
input power: 0 dBm
IM: > 60 dB

3. Marking:
manufacturer, date code
MQF 21.4-1500/24V0

4. Environment conditions:
Corresponding to Vectron standard CF001

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Edited by: ________________________________  date: ________________________________  name: ________________________________