Specification for monolithic crystal filter: **MQF 21.4 - 3000/02**

1. General
1.1. Package: 2 x GH 9 (each filter consists of a pair of two matched duals)

![](image1)

1.2. Type name: MQF 21.4-3000/02
1.3. Number of poles: 4
1.4. Operable temperature range: -30°C to +80°C
1.5. Operating temperature range: -30°C to +70°C
1.6. Storage temperature range: -55°C to +80°C

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

2.2. Pass band
2.2.1. Bandwidth between 3 dB - frequencies: $\geq f_0 \pm 15$ kHz
2.2.2. Ripple: $\leq 1.5$ dB at $f_0 \pm 10$ kHz
2.2.3. Insertion loss: $\leq 2.0$ dB
   (measured on smallest attenuation in pass band)

2.3. Stop band
2.3.1. $f_0 \pm 50$ kHz $\geq 40$ dB
2.3.2. $f_0 \pm 100$ kHz $\geq 60$ dB
2.3.3. Spurious responses: $\geq 14$ dB

2.4. Terminating impedance R/C (input and output): 2200 $\Omega$ // 0.5 pF
2.4.1. Coupling capacitance (Cc): 3.5 pF

3. Marking: manufacturer ("VI" or "TFT"), date code (YYWW)
   21.4-3000/02

4. Environment conditions: Corresponding to Vectron standard CF001

5. Packing: bulk (maximum 250 pcs. / box)
   card box dimension: (200 x 145 x 35) mm

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Edited by: date: ______________________________ name: ______________________________