Specification for monolithic crystal filter: **MQF 21.4-2400/09**

1. General

1.1. Package:

1.2. Type name: MQF 21.4-2400/09

1.3. Number of poles: 10

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

1.5. Storage temperature range: -40°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: $\geq f_0 \pm 12$ kHz

2.2.2. Ripple: $\leq 2.0$ dB at $f_0 \pm 10$ kHz

2.2.3. Group delay distortion: $\leq 10$ µs at $f_0 \pm 3.50$ kHz

2.2.4. Group delay distortion: $\leq 15$ µs at $f_0 \pm 5.75$ kHz

2.2.5. Group delay distortion: $\leq 50$ µs at $f_0 \pm 8.75$ kHz

2.2.4. Insertion loss: $\leq 3.5$ dB

( measured on smallest attenuation in pass band )

2.3. Stop band

2.3.1. $f_0 \pm 23$ kHz $\geq 70$ dB

2.3.2. $f_0 \pm 25$ kHz $\geq 80$ dB

2.3.3. $f_0 \pm 30$ kHz...± 300 kHz $\geq 90$ dB ( except spurious )

2.4. Terminating impedance ( input and output ): 470 $\Omega$ // 15 pF

3. Marking:

manufacturer, date code

MQF 21.4-2400/09

4. Environment conditions:

Corresponding to Vectron standard CF001

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Edited by: _______________________________ name: _______________________________