Specification for monolithic crystal filter: **MQF 21.4-0900/06**

### 1. General

1.1. Package: (each filter consists of 4 matched duals in GH9 package)

### 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: $\geq f_0 \pm 4.5$ kHz

2.2.2. Ripple in pass band: $\leq 1.0$ dB peak to peak

2.2.3. Differential group delay

- $\leq 30 \mu s$ at $f_0 \pm 2.8$ kHz
- $\leq 10 \mu s$ at $f_0 \pm 1.6$ kHz

2.2.4. Insertion loss:

( measured on smallest attenuation in pass band )

$\leq 3.0$ dB

2.3. **Stop band**

2.3.1. $f_0 \pm 12.5$ kHz $\geq 60$ dB

2.3.2. Alternate attenuation $\geq 80$ dB

2.4. Terminating impedance (input and output): 1600 $\Omega$ // 0.5 pF

Coupling capacitances:

- $C_{k1} = C_{k3} = 10.4$ pF
- $C_{k2} = 12.8$ pF

2.5. Maximum input power level:

+10 dBm / +25 dBm (working / non damaged)

3. Marking: manufacturer, date code

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4. Environment conditions: Corresponding to Vectron standard CF001

Edited by: _____________________________  name: ________________________________