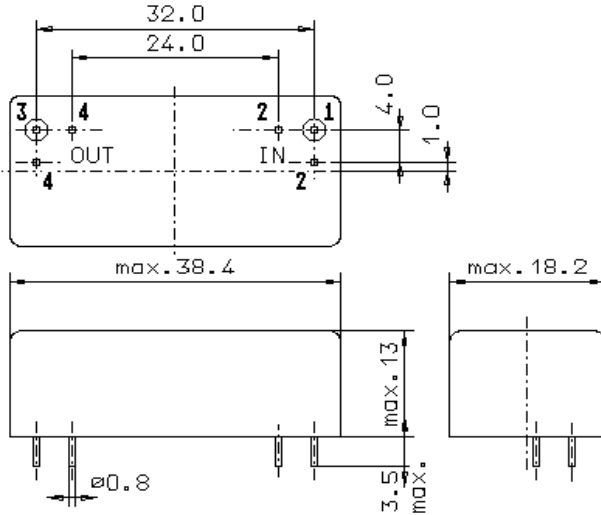


Specification for monolithic crystal filter:

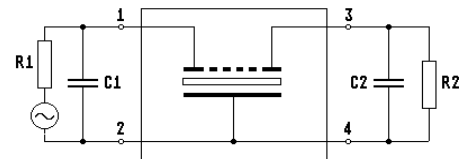
**MQF 21.4-2000/21**

**1. General**

1.1. Package:



GM17



- |                                   |                  |
|-----------------------------------|------------------|
| 1.2. Type name:                   | MQF 21.4-2000/21 |
| 1.3. Number of poles:             | 6                |
| 1.4. Operating temperature range: | -40°C to +85°C   |
| 1.5. Storage temperature range:   | -55°C to +90°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:                                | $\geq f_o \pm 10$ kHz                    |
| 2.2.2. Ripple:  | $\leq 1.0$ dB at $f_o \pm 6.0$ kHz       |
| 2.2.3. Group delay distortion   | $\leq 32.5$ $\mu$ s at $f_o \pm 8.0$ kHz |
| 2.2.4. Insertion loss:<br>( measured on smallest attenuation in pass band ) | $\leq 6.0$ dB                            |

**2.3. Stop band**

- |  |              |
|--|--------------|
| 2.3.1. $f_o \pm 30$ kHz                  | $\geq 45$ dB |
| 2.3.2. $f_o \pm 55$ kHz..... $\pm 5$ MHz | $\geq 80$ dB |
| 2.3.3. Spurious responses:               | $> 50$ dB    |

- |  |                     |
|--|---------------------|
| 2.4. Terminating impedance ( input and output ): | 50 $\Omega$ // 0 pF |
|--|---------------------|

- |             |   |
|-------------|---|
| 3. Marking: | manufacturer, date code<br>MQF 21.4-2000/21 |
|-------------|---|

- |                            |   |
|----------------------------|---|
| 4. Environment conditions: | Corresponding to Vectron standard CF001 |
|----------------------------|---|

Edited by: \_\_\_\_\_ date: \_\_\_\_\_ name: \_\_\_\_\_