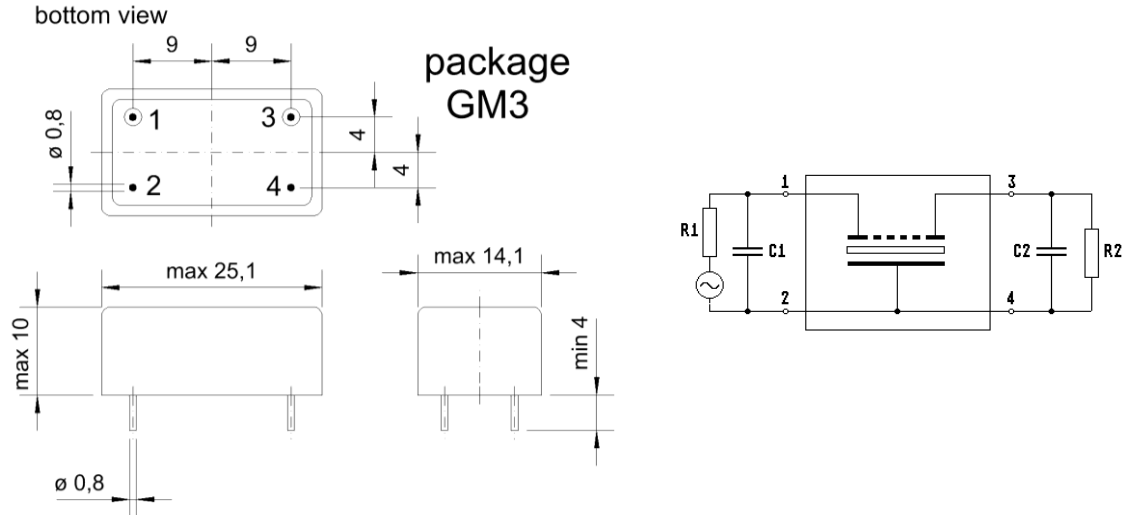


Specification for monolithic crystal filter

**MQF 70.0-1400/02**

**1. General**

1.1. Package:



- |                                   |                  |
|-----------------------------------|------------------|
| 1.2. Type name:                   | MQF 70.0-1400/02 |
| 1.3. Number of poles:             | 4                |
| 1.4. Operating temperature range: | -20°C to +85°C   |
| 1.5. Storage temperature range:   | -35°C to +85°C   |

**2. Electric values**

- |                                       |          |
|---------------------------------------|----------|
| 2.1. Nominal centre frequency $f_0$ : | 70.0 MHz |
|---------------------------------------|----------|

**2.2. Pass band**

- |   |                                     |
|---|-------------------------------------|
| 2.2.1. Bandwidth between 3 dB - frequencies:                                | $< f_0 \pm 7.0$ kHz                 |
| 2.2.2. Ripple:  | $< 1.0$ dB at $f_0 \pm 4.5$ kHz     |
| 2.2.3. Group delay distortion:  | $< 30$ $\mu$ s at $f_0 \pm 7.0$ kHz |
| 2.2.4. Insertion loss:<br>( measured on smallest attenuation in pass band ) | $\leq 4.0$ dB                       |

**2.3. Stop band**

- |                                    |              |
|------------------------------------|--------------|
| 2.3.1. $f_0 \pm 15$ kHz            | $\geq 10$ dB |
| 2.3.2. $f_0 \pm 35$ kHz            | $\geq 40$ dB |
| 2.3.3. $f_0 \pm 90$ kHz.....50 MHz | $\geq 60$ dB |
| 2.3.4. Spurious responses:         | $\geq 35$ dB |

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

- |             |   |
|-------------|---|
| 3. Marking: | manufacturer, date code<br>MQF 70.0-1400/02 |
|-------------|---|

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