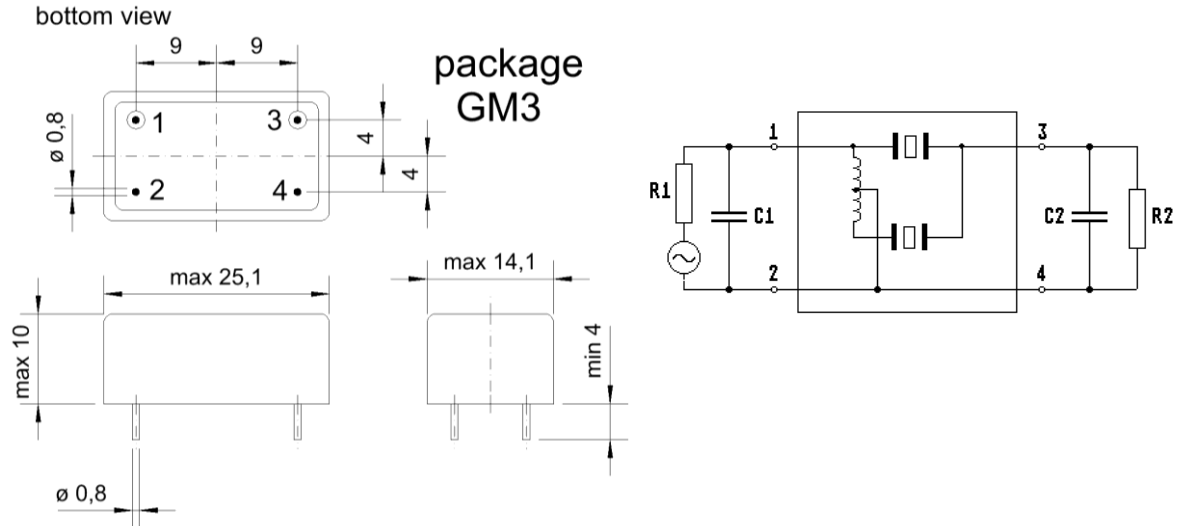


Specification for crystal filter:

**QF 70.0-4000/07**

## 1. General

### 1.1. Package:



- |                                   |                 |
|-----------------------------------|-----------------|
| 1.2. Type name:                   | QF 70.0-4000/07 |
| 1.3. Number of poles:             | 2               |
| 1.4. Operating temperature range: | -40°C to +85°C  |
| 1.5. Storage temperature range:   | -45°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:                                | $\geq f_0 \pm 20$ kHz               |
| 2.2.2. Ripple:  | Gaussian                            |
| 2.2.3. Group delay at $f_0$ :   | $9 \mu\text{s} \pm 1.5 \mu\text{s}$ |
| 2.3.4. Group delay distortion in the range $f_0 \pm 20$ kHz<br>at 20°C:     | $< 1 \mu\text{s}$                   |
| in operating temperature range:   | $< 2 \mu\text{s}$                   |
| 2.2.5. Insertion loss:<br>( measured on smallest attenuation in pass band ) | $\leq 7$ dB                         |

### 2.3. Stop band

- |  |                                  |
|--|----------------------------------|
| 2.3.1. $f_0 \pm 200$ kHz                         | $\geq 30$ dB ( except spurious ) |
| 2.3.2. Alternate attenuation:                    | $\geq 40$ dB ( except spurious ) |
| 2.4. Terminating impedance ( input and output ): | $50 \Omega // 0$ pF              |

- |             |  |
|-------------|--|
| 3. Marking: | manufacturer, date code<br>QF 70.0-4000/07 |
|-------------|--|

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

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