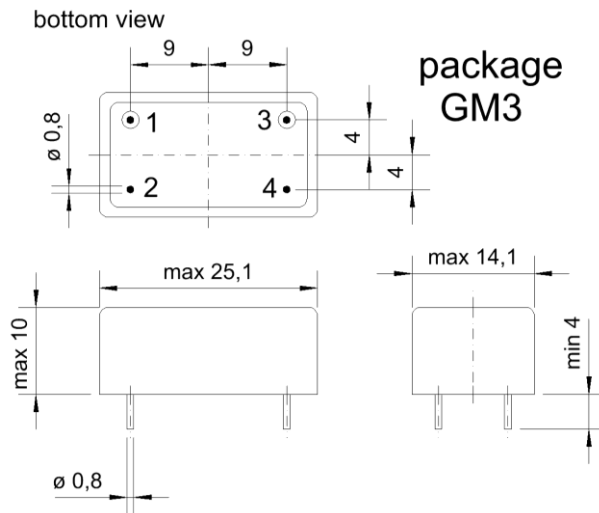


Specification for monolithic crystal filter:

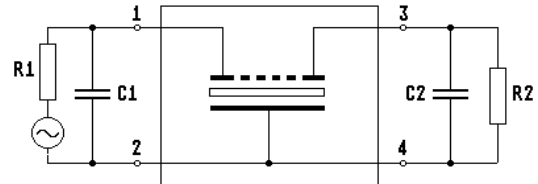
**MQF 30.0-7000/03**

## 1. General

### 1.1. Package:



pin 1 Input  
pin 3 Output  
pin 2,4 GND



- |                                   |                  |
|-----------------------------------|------------------|
| 1.2. Type name:                   | MQF 30.0-7000/03 |
| 1.3. Number of poles:             | 6                |
| 1.4. Operating temperature range: | -40°C to +85°C   |
| 1.5. Storage temperature range:   | -55°C to +105°C  |

## 2. Electric values

- |                                       |          |
|---------------------------------------|----------|
| 2.1. Nominal centre frequency $f_0$ : | 30.0 MHz |
|---------------------------------------|----------|

### 2.2. Pass band

- |   |                            |
|---|----------------------------|
| 2.2.1. Centre frequency $f_c$ :   | 30.0 MHz $\pm$ 2.0 kHz:    |
| 2.2.2. 6-dB bandwidth:  | $\geq$ 70 kHz              |
| 2.2.3. Ripple in the range $f_0 \pm 20.0$ kHz:                              | $\leq$ 1.0 dB peak to peak |
| 2.2.4. Insertion loss:<br>( measured on smallest attenuation in pass band ) | $\leq$ 6.0 dB              |

### 2.3. Stop band

- |  |              |
|--|--------------|
| 2.3.1. 50-dB bandwidth:                                | $<$ 144 kHz  |
| 2.3.2. $f_0 + 90$ kHz.....+350 kHz                     | $\geq$ 60 dB |
| 2.3.3. $f_0 + 350$ kHz.....+10 MHz                     | $\geq$ 70 dB |
| 2.3.4. $f_0 - 110$ kHz.....-10 MHz                     | $\geq$ 70 dB |
| 2.3.5. Spurious responses at $f_0 + 100$ .....+800 kHz | $\geq$ 35 dB |

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

- |             |   |
|-------------|---|
| 3. Marking: | manufacturer, date code<br>MQF 30.0-7000/03 |
|-------------|---|

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

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