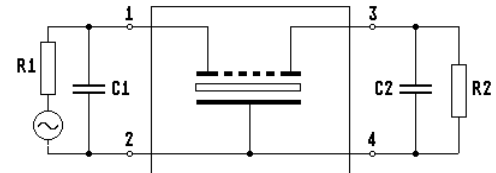
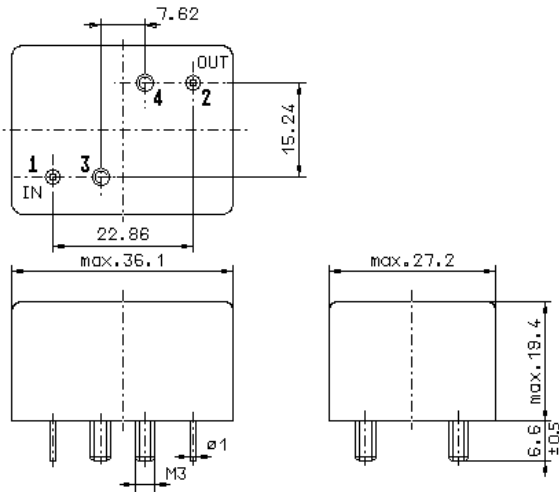


Specification for monolithic crystal filter:

**MQF 21.4-4000/03**

## 1. General

### 1.1. Package:



- |                                   |                  |
|-----------------------------------|------------------|
| 1.2. Type name:                   | MQF 21.4-4000/03 |
| 1.3. Number of poles:             | 6                |
| 1.4. Operating temperature range: | -40°C to +85°C   |
| 1.5. Storage temperature range:   | -55°C to +125°C  |

## 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:                                | $> f_0 \pm 20.0$ kHz |
| 2.2.2. Ripple at $f_0 \pm 16.0$ kHz:  | $< 2.0$ dB           |
| 2.2.3. Insertion loss:<br>( measured on smallest attenuation in pass band ) | $< 4.0$ dB           |

### 2.3. Stop band

- |   |                               |
|---|-------------------------------|
| 2.3.1. $f_0 \pm 60$ kHz                               | $> 60$ dB                     |
| 2.3.2. Alternate attenuation:                         | $> 80$ dB ( except spurious ) |
| 2.3.3. Spurious responses allowed in frequency range: | $f_0 + 60 \dots + 2.0$ MHz    |

- |  |                       |
|--|-----------------------|
| 2.4. Terminating impedance ( input and output ): | $1500 \Omega // 0$ pF |
|--|-----------------------|

- |   |                 |
|---|-----------------|
| 2.5. Maximum drive level ( working / non-damaged ): | 0 dBm / +15 dBm |
|---|-----------------|

- |             |   |
|-------------|---|
| 3. Marking: | manufacturer, date code<br>MQF 21.4-4000/03 |
|-------------|---|

- |                            |                      |
|----------------------------|----------------------|
| 4. Environment conditions: | Vectron MIL-standard |
|----------------------------|----------------------|

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