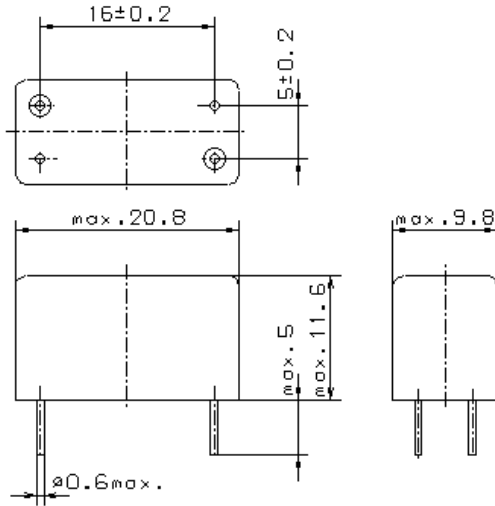


Specification for crystal filter:

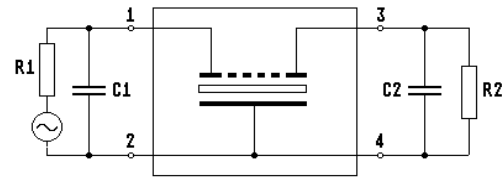
**QF 70.0-8000/02**

**1. General**

1.1. Package:



GM 45



- |                                   |                 |
|-----------------------------------|-----------------|
| 1.2. Type name:                   | QF 70.0-8000/02 |
| 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 fo: | 70.0 MHz |
|-----------------------------------|----------|

**2.2. Pass band**

- |   |               |
|---|---------------|
| 2.2.1. Bandwidth between 3 dB - frequencies:            | > fo ± 40 kHz |
| 2.2.2. Ripple in the range fo ± 40 kHz:                 | Gaussian      |
| 2.2.3. Group delay at fo:                               | < 6 µs        |
| 2.3.4. Group delay absolute at fo:                      | 4.5 µs ± 1 µs |
| 2.3.5. Group delay distortion in the range fo ± 40 kHz: | < 1 µs        |
| 2.2.6. Insertion loss:                                  | < 4 dB        |

( measured on smallest attenuation in pass band )

**2.3. Stop band**

- |                               |                             |
|-------------------------------|-----------------------------|
| 2.3.1. fo ± 400 kHz           | ≥ 30 dB                     |
| 2.3.2. Alternate attenuation: | ≥ 40 dB ( except spurious ) |

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

- |             |  |
|-------------|--|
| 3. Marking: | manufacturer, date code<br>QF 70.0-8000/02 |
|-------------|--|

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