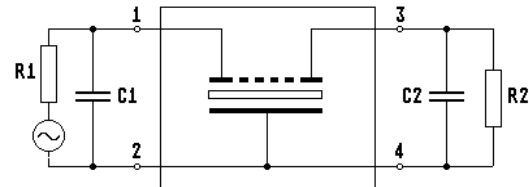
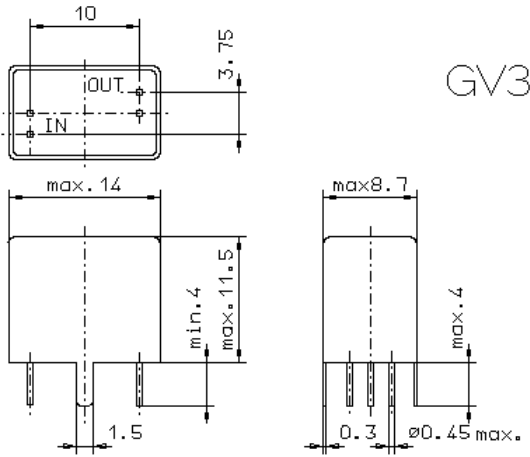


Specification for monolithic crystal filter:

**MQF 45.0-2000/17**

**1. General**

1.1. Package:



- |                                   |                  |
|-----------------------------------|------------------|
| 1.2. Type name:                   | MQF 45.0-2000/17 |
| 1.3. Number of poles:             | 8                |
| 1.4. Operating temperature range: | -25°C to +70°C   |
| 1.5. Storage temperature range:   | -45°C to +85°C   |

**2. Electric values**

- |   |   |
|---|---|
| 2.1. Nominal centre frequency fo:   | 45.0 MHz  |
| 2.2. <b>Pass band</b>   |   |
| 2.2.1. Bandwidth between 3 dB - frequencies:  | > fo ± 10 kHz                                   |
| 2.2.2. Ripple:  | < 2.0 dB at fo ± 7.5 kHz                        |
| 2.2.3. Group delay distortion at fo ± 10 kHz  | < 60 µs   |
| 2.2.4. Group delay absolute at fo:  | < 85 µs   |
| 2.2.5. Insertion loss:<br>( measured on smallest attenuation in pass band )             | ≤ 4.0 dB  |
| 2.3. <b>Stop band</b>   |   |
| 2.3.1. fo ± 38 kHz  | ≥ 85 dB   |
| 2.3.2. fo ± 100 kHz.....± 5000 kHz  | ≥ 85 dB ( except spurious )                     |
| 2.4. Terminating impedance ( input and output ):  | 850 Ω // 1.0 pF                                 |
| 2.5. Out band intermodulation, IP3 > 35 dBm<br>Frequencies:<br>Input power level:<br>IM | fo ± 50 kHz / fo ± 100 kHz<br>-5 dBm<br>> 80 dB |
| 3. Marking:   | manufacturer, date code<br>MQF 45.0-2000/17     |
| 4. Environment conditions:  | Corresponding to Vectron standard CF001         |