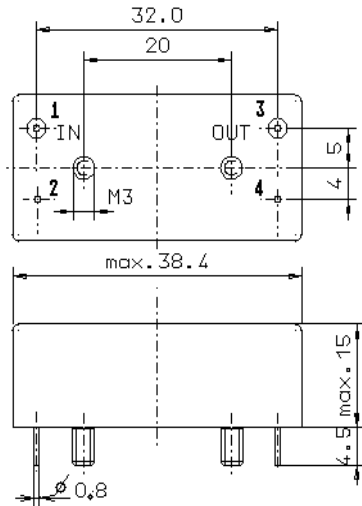


Specification for crystal filter:

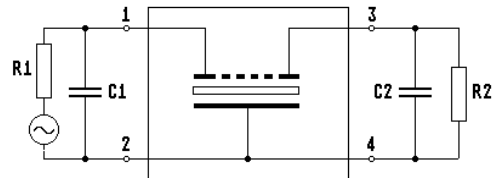
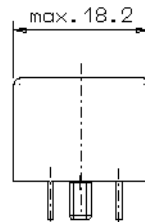
**QF 45.0 - 6000 / 02**

## 1. General

### 1.1. Package:



GM17.4



- |                                   |                 |
|-----------------------------------|-----------------|
| 1.2. Type name:                   | QF 45.0-6000/02 |
| 1.3. Number of poles:             | 4               |
| 1.4. Operating temperature range: | -20°C to +70°C  |
| 1.5. Storage temperature range:   | -35°C to +85°C  |

## 2. Electric values

- |                                                                             |                                   |
|-----------------------------------------------------------------------------|-----------------------------------|
| 2.1. Nominal centre frequency $f_0$ :                                       | 45.0 MHz                          |
| 2.2. <b>Pass band</b>                                                       |                                   |
| 2.2.1. Bandwidth between 3 dB - frequencies:                                | $\geq f_0 \pm 30$ kHz             |
| 2.2.2. Ripple:                                                              | $\leq 1.0$ dB at $f_0 \pm 22$ kHz |
| 2.2.3. Insertion loss:<br>( measured on smallest attenuation in pass band ) | $\leq 4.0$ dB                     |
| 2.3. <b>Stop band</b>                                                       |                                   |
| 2.3.1. $f_0 \pm 100$ kHz                                                    | $\geq 30$ dB                      |
| 2.3.2. alternate attenuation                                                | $\geq 50$ dB (except spurious)    |
| 2.4. Terminating impedance ( input and output ):                            | $50 \Omega // 0$ pF               |
| 2.5. Input power level:                                                     | +1 dBm                            |

- |             |                                            |
|-------------|--------------------------------------------|
| 3. Marking: | manufacturer, date code<br>QF 45.0-6000/02 |
|-------------|--------------------------------------------|

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

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