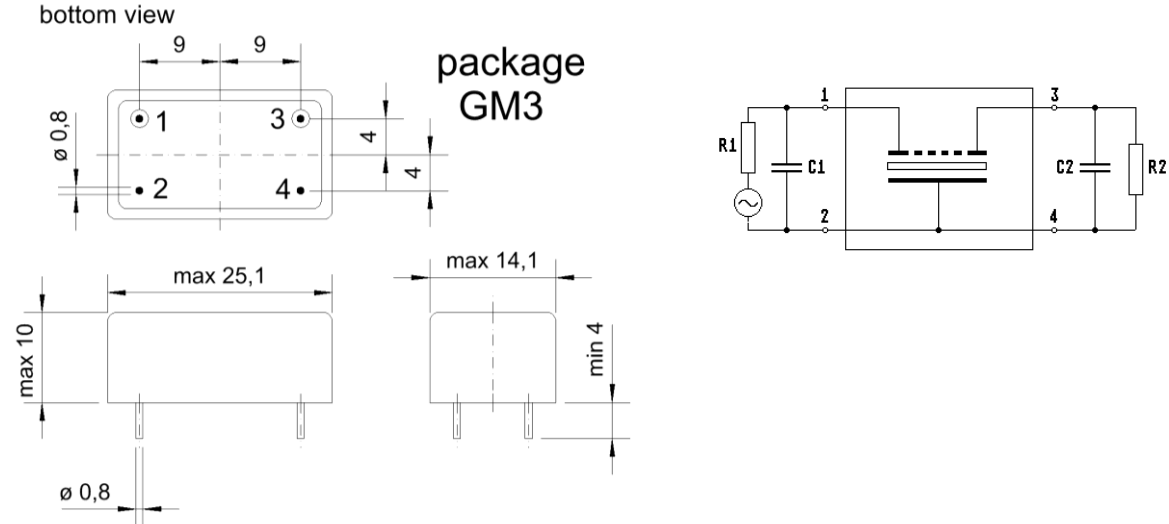


Specification for monolithic crystal filter:

**MQF 45.5-7000/07**

## 1. General

### 1.1. Package:



- |                                   |                  |
|-----------------------------------|------------------|
| 1.2. Type name:                   | MQF 45.5-7000/07 |
| 1.3. Number of poles:             | 4                |
| 1.4. Operating temperature range: | -30°C to +85°C   |
| 1.5. Storage temperature range:   | -35°C to +85°C   |

## 2. Electric values

- |                                       |          |
|---------------------------------------|----------|
| 2.1. Nominal centre frequency $f_0$ : | 45.5 MHz |
|---------------------------------------|----------|

### 2.2. Pass band

- |                                                                             |                                          |
|-----------------------------------------------------------------------------|------------------------------------------|
| 2.2.1. Bandwidth between 3 dB - frequencies:                                | $\geq f_0 \pm 35$ kHz                    |
| 2.2.2. Ripple:                                                              | $\leq 1.0$ dB at $f_0 \pm 27.5$ kHz      |
| 2.2.3. Group delay distortion:                                              | $\leq 2.0$ $\mu$ s at $f_0 \pm 27.5$ kHz |
| 2.2.4. Insertion loss:<br>( measured on smallest attenuation in pass band ) | $\leq 3.0$ dB                            |

### 2.3. Stop band

- |                            |              |
|----------------------------|--------------|
| 2.3.1. $f_0 \pm 70$ kHz    | $\geq 10$ dB |
| 2.3.2. $f_0 \pm 100$ kHz   | $\geq 25$ dB |
| 2.3.3. $f_0 \pm 250$ kHz   | $\geq 35$ dB |
| 2.3.4. $f_0 \pm 450$ kHz   | $\geq 40$ dB |
| 2.3.5. Spurious responses: | $\geq 8$ dB  |

- |                                                  |                        |
|--------------------------------------------------|------------------------|
| 2.4. Terminating impedance ( input and output ): | 500 $\Omega$ // 2.0 pF |
|--------------------------------------------------|------------------------|

- |             |                                             |
|-------------|---------------------------------------------|
| 3. Marking: | manufacturer, date code<br>MQF 45.5-7000/07 |
|-------------|---------------------------------------------|

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