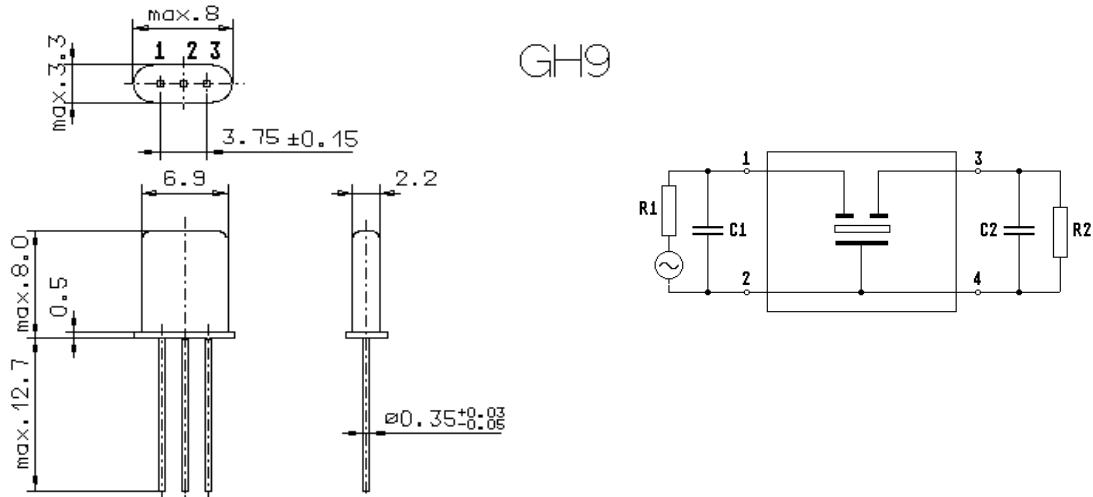


Specification for monolithic crystal filter:

**MQF 45.0-0750/12**

## 1. General

### 1.1. Package:



- |                                   |                  |
|-----------------------------------|------------------|
| 1.2. Type name:                   | MQF 45.0-0750/12 |
| 1.3. Number of poles:             | 2                |
| 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:                                | $\geq f_0 \pm 3.75$ kHz        |
| 2.2.2. Ripple:  | $\leq 1$ dB at $f_0 \pm 3$ kHz |
| 2.2.3. Insertion loss:<br>( measured on smallest attenuation in pass band ) | $\leq 2.0$ dB                  |

### 2.3. Stop band

- |                            |                                  |
|----------------------------|----------------------------------|
| 2.3.1. $f_0 \pm 12.5$ kHz  | $\geq 15$ dB                     |
| 2.3.2. $f_0 - 100$ kHz     | $\geq 45$ dB                     |
| 2.3.3. $f_0 + 500$ kHz     | $\geq 45$ dB ( except spurious ) |
| 2.3.4. $f_0 \pm 910$ kHz   | $\geq 70$ dB ( except spurious ) |
| 2.3.5. Spurious responses: | $\geq 15$ dB                     |

- |  |                       |
|--|-----------------------|
| 2.4. Terminating impedance ( input and output ): | $350 \Omega // 11$ pF |
|--|-----------------------|

- |             |   |
|-------------|---|
| 3. Marking: | manufacturer, date code<br>45.0-0750/12 |
|-------------|---|

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