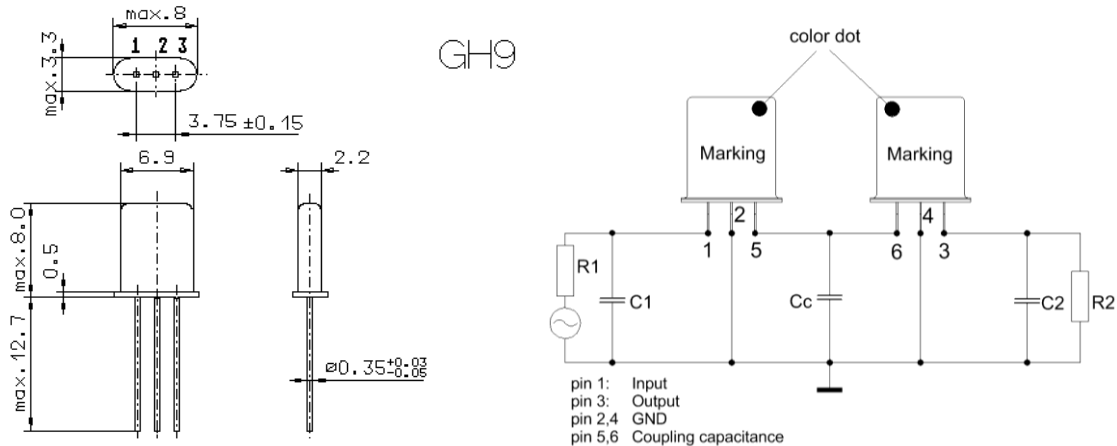


Specification for monolithic crystal filter: **MQF 29.255-1500/02**

## 1. General

1.1. Package: 2 x GH9 ( each filter consists of a matched pair of two GH9 duals )



- |                                   |                    |
|-----------------------------------|--------------------|
| 1.2. Type name:                   | MQF 29.255-1500/02 |
| 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 fo:                   | 29.255 MHz                   |
| 2.2. Pass band                                      |                              |
| 2.2.1. Bandwidth between 3 dB - frequencies:        | $\geq f_o \pm 7.5$ kHz       |
| 2.2.2. Ripple at $f_o \pm 5.0$ kHz:                 | $\leq 1.0$ dB (peak to peak) |
| 2.2.3. Insertion loss:                              | $\leq 2.0$ dB                |
| ( measured on smallest attenuation in pass band )   |                              |
| 2.3. Stop band                                      |                              |
| 2.3.1. $f_o \pm 25$ kHz                             | $\geq 30$ dB                 |
| 2.3.2. $f_o +600 \dots +1000$ kHz                   | $\geq 70$ dB                 |
| 2.3.3. $f_o -200 \dots -1000$ kHz                   | $\geq 70$ dB                 |
| 2.4. Terminating impedance R//C (input and output): | $600 \Omega // 3.0$ pF       |
| 2.4.1. Coupling capacitance ( Cc ):                 | 15.4 pF                      |

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|----------------------------|---|
| 3. Marking:                | manufacturer, date code<br>29.255-1500/02 |
| 4. Environment conditions: | Corresponding to Vectron standard CF001   |