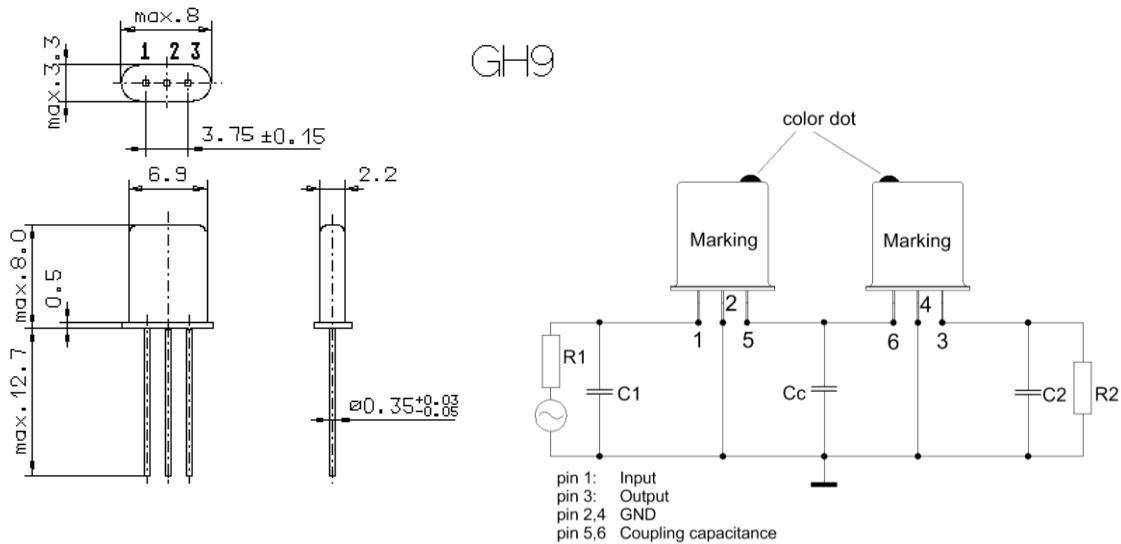


Specification for monolithic crystal filter: **MQF 21.4-3000/42**

1. General

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



- | | |
|-----------------------------------|------------------|
| 1.2. Type name: | MQF 21.4-3000/42 |
| 1.3. Number of poles: | 4 |
| 1.4. Operating temperature range: | -20°C to +70°C |
| 1.5. Storage temperature range: | -25°C to +85°C |

2. Electric values

2.1. Nominal centre frequency f_0 : 21.4 MHz

2.2. Pass band

- | | |
|---|---|
| 2.2.1. Bandwidth between 3 dB - frequencies: | $\geq f_0 \pm 15.0$ kHz |
| 2.2.2. Ripple: | Gaussian |
| 2.2.3. Group delay distortion: | $< 4.0 \mu\text{s}$ at $f_0 \pm 15$ kHz |
| 2.2.4. Insertion loss:
(measured on smallest attenuation in pass band) | ≤ 3.0 dB |

2.3. Stop band

- | | |
|-------------------------------|----------------------------------|
| 2.3.1. $f_0 \pm 70$ kHz | ≥ 35 dB |
| 2.3.2. Alternate attenuation: | ≥ 80 dB (except spurious) |

2.4. Terminating impedance (input and output): 5000 Ω // -0.8 pF

2.4.1. Coupling capacitance C_c : 2.0 pF

3. Marking: manufacturer, date code
21.4-3000/42

4. Environment conditions: Corresponding to Vectron standard CF001

Edited by: _____ date: _____ name: _____