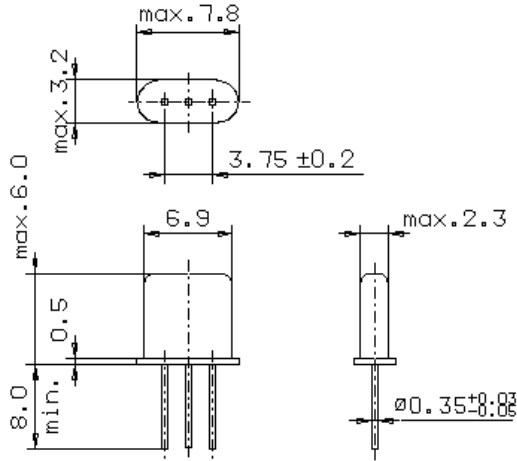


Specification for monolithic crystal filter:

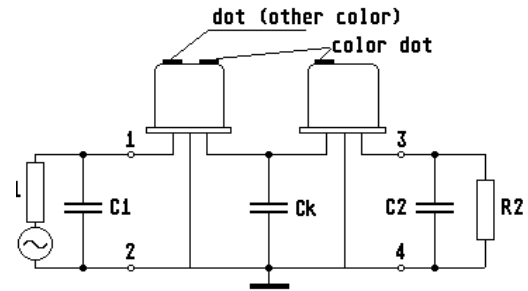
**MQF 45.0-3800/09**

1. General

1.1. Package: 2 x GH 12



GH12



- |                                   |                  |
|-----------------------------------|------------------|
| 1.2. Type name:                   | MQF 45.0-3800/09 |
| 1.3. Number of poles:             | 4                |
| 1.4. Operable temperature range:  | -25°C to +80°C   |
| 1.5. Operating temperature range: | -20°C to +70°C   |
| 1.6. Storage temperature range:   | -35°C to +80°C   |

2. Electric values

- |                                   |          |
|-----------------------------------|----------|
| 2.1. Nominal centre frequency fo: | 45.0 MHz |
|-----------------------------------|----------|

2.2. Pass band

- |   |                          |
|---|--------------------------|
| 2.2.1. Bandwidth between 6 dB - frequencies:                                | ≥ fo ± 19.0 kHz          |
| 2.2.2. Ripple:  | Gaussian                 |
| 2.2.3. Group delay distortion:  | ≤ 15 μs at fo ± 19.0 kHz |
| 2.2.4. Insertion loss:<br>( measured on smallest attenuation in pass band ) | ≤ 3.0 dB                 |

2.3. Stop band

- |                            |         |
|----------------------------|---------|
| 2.3.1. fo ± 38 kHz         | ≥ 25 dB |
| 2.3.2. fo ± 75 kHz         | ≥ 50 dB |
| 2.3.3. Spurious responses: | ≥ 15 dB |

2.4. Terminating impedance

- |         |   |
|---------|---|
| Input:  | 900 Ω // 1 pF ( marked with color dot ) |
| Output: | 800 Ω // 2 pF                           |

- |                                 |        |
|---------------------------------|--------|
| 2.4.1. Coupling capacitance Cc: | 6.5 pF |
|---------------------------------|--------|

- |             |   |
|-------------|---|
| 3. Marking: | manufacturer, date code<br>45.0-3800/09 |
|-------------|---|

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

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