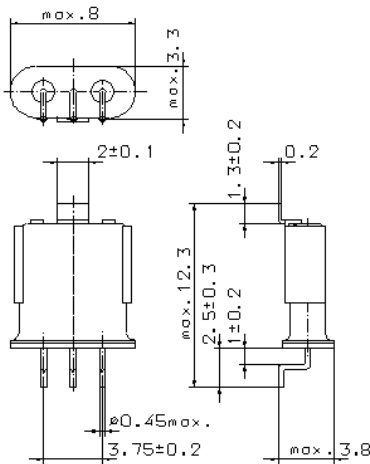


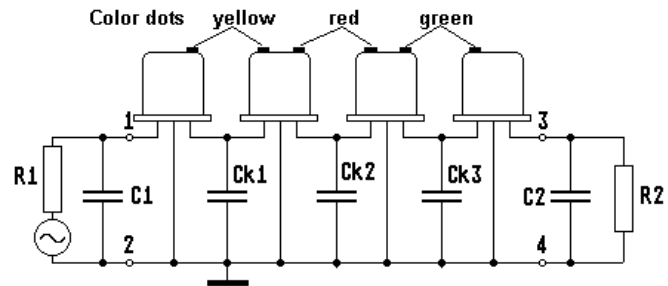
Specification for monolithic crystal filter: **MQF 45.0 - 1000 / 08**

1. General

1.1. Package: 4 x GH9S1 (each filter consists of 4 matched duals in GH9S1 package)



GH9S1



- | | |
|-----------------------------------|------------------|
| 1.2. Type name: | MQF 45.0-1000/08 |
| 1.3. Number of poles: | 8 |
| 1.4. Operating temperature range: | -20°C to +70°C |
| 1.5. Storage temperature range: | -45°C to +85°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 ± 5.0 kHz |
| 2.2.2. Typical bandwidth between 3 dB - frequencies: | approximately fo ± 5.35 kHz |
| 2.2.3. Ripple: | ≤ 1.0 dB at fo ± 2.5 kHz |
| 2.2.4. Insertion loss:
(measured on smallest attenuation in pass band) | ≤ 6.5 dB |

2.3. Stop band

- | | |
|----------------------|---------|
| 2.3.1. fo ± 10 kHz | ≥ 30 dB |
| 2.3.2. fo ± 20 kHz | ≥ 85 dB |
| 2.3.3. fo - 910 kHz: | ≥ 85 dB |

- | | |
|--|-----------------|
| 2.4. Terminating impedance (input and output): | 300 Ω // 8.5 pF |
|--|-----------------|

- | | | |
|------------------------------|----------|---------|
| 2.4.1. Coupling capacitance: | Ck1, Ck3 | 22.7 pF |
| | Ck2 | 23.8 pF |

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|-------------|---|
| 3. Marking: | manufacturer, date code
45.0-1000/08 |
|-------------|---|

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