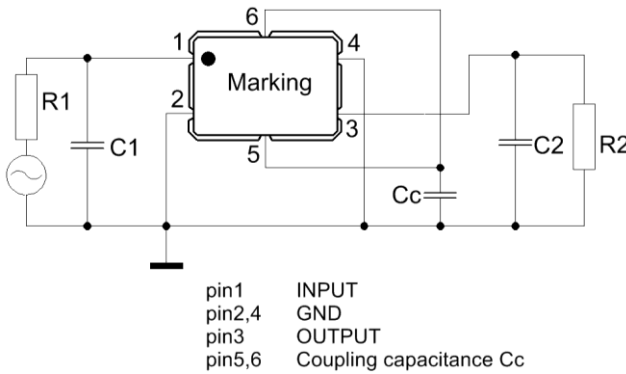
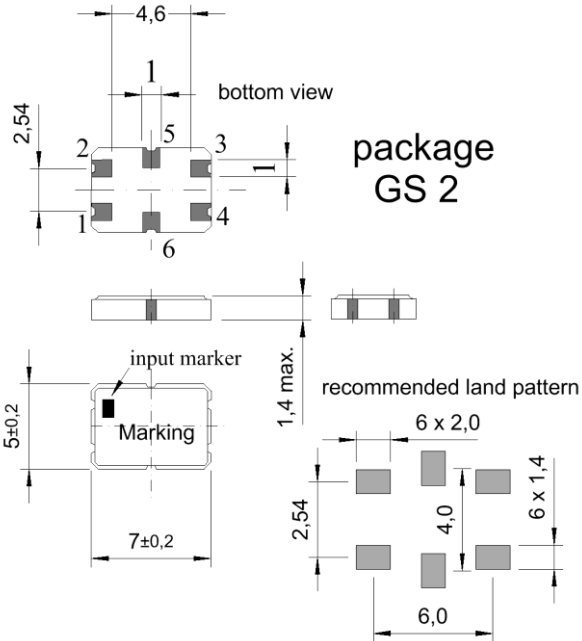


Specification for monolithic crystal filter:

MQF 70.0 - 7500/02

1. General

1.1. Package:



- | | |
|-----------------------------------|------------------|
| 1.2. Type name: | MQF 70.0-7500/02 |
| 1.3. Number of poles: | 4 |
| 1.4. Operating temperature range: | -40°C to +85°C |
| 1.5. Storage temperature range: | -45°C to +85°C |

2. Electric values

- | | |
|-------------------------------------|-----------------------------|
| 2.1. Nominal centre frequency fo: | 70.0 MHz |
| 2.2. Center frequency shift in OTR: | < ± 25ppm referred to +25°C |

2.3. Pass band

- 2.3.1. Bandwidth between 3 dB - frequencies: $> f_0 \pm 37.5 \text{ kHz}$
2.3.2. Ripple (at $f_0 \pm 25 \text{ kHz}$): $< 1.0 \text{ dB}$ (peak to peak)
2.3.3. Differential group delay (at $f_0 \pm 25 \text{ kHz}$): $< 6.0 \mu\text{s}$
2.3.4. IN / OUT return loss (at $f_0 \pm 25 \text{ kHz}$): $> 10 \text{ dB}$
2.3.5. Insertion loss: $< 5.0 \text{ dB}$
(measured on smallest attenuation in pass band)

2.4. Stop band

- 2.4.1. $f_0 \pm 100 \text{ kHz}$ $> 25 \text{ dB}$
2.4.2. $f_0 \pm 150 \text{ kHz}$ $> 40 \text{ dB}$
2.4.3. $f_0 \pm 200 \text{ kHz}$ $> 50 \text{ dB}$
2.4.4. Alternate attenuation $> 65 \text{ dB}$ (except spurious)

- 2.5. Terminating impedance R//C (IN / OUT): $2.2 \text{ k}\Omega \pm 400 \Omega // -0.2 \text{ pF} \pm 0.5 \text{ pF}$

- 2.5.1. Coupling capacitance Cc: $0.8 \text{ pF} \pm 0.5 \text{ pF}$

- 2.6. Input power level for reference measurements: -10 dBm

- 2.6.1. Maximum input power level without destruction: 0 dBm

3. Marking:
 - M70A11
 - yyww

4. Environment conditions:

- a. vibration: MIL-STD-810G, method 514.6 procedure I
b. shock: MIL-STD-810G, method 516.6 procedure I + IV + V

5. Filters are Pb-free and 2002 /95 / EC RoHS compliant

Edited by: _____ date: _____ name: _____