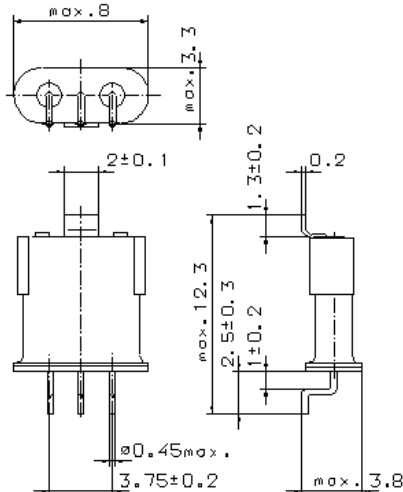


Specification for monolithic crystal filter:

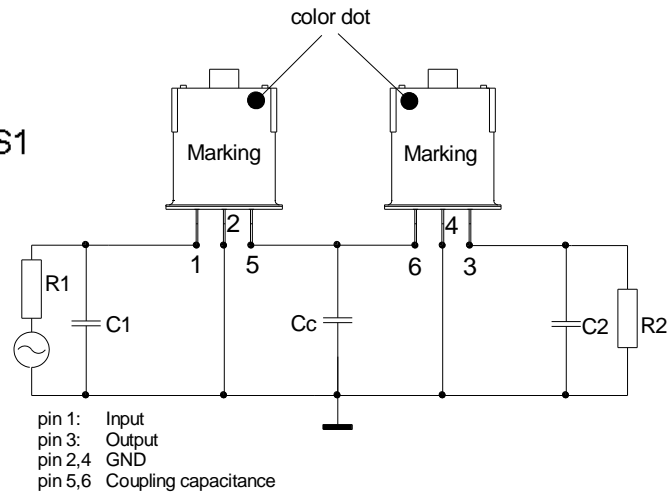
MQF 21.4-1500/80

1. General

1.1. Package:



GH9S1



- | | |
|-----------------------------------|------------------|
| 1.2. Type name: | MQF 21.4-1500/80 |
| 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 f_0 : | 21.4 MHz |
|---------------------------------------|----------|

2.2. Pass band

- | | |
|---|------------------------------------|
| 2.2.1. Bandwidth between 3 dB - frequencies: | $\geq f_0 \pm 7.5$ kHz |
| 2.2.2. Ripple: | ≤ 1.0 dB at $f_0 \pm 5.0$ kHz |
| 2.2.3. Insertion loss:
(measured on smallest attenuation in pass band) | ≤ 1.5 dB |

2.3. Stop band

- | | |
|-----------------------------------|----------------------------------|
| 2.3.1. $f_0 \pm 25$ kHz | ≥ 40 dB |
| 2.3.2. $f_0 \pm 50 \dots 500$ kHz | ≥ 60 dB (except spurious) |
| 2.3.3. $f_0 - 910$ kHz | ≥ 75 dB |

- | | |
|---|-------------------------|
| 2.4. Terminating impedance R//C (input and output): | 1500 Ω // 2.0 pF |
|---|-------------------------|

Coupling capacitance C_c : 7.4 pF

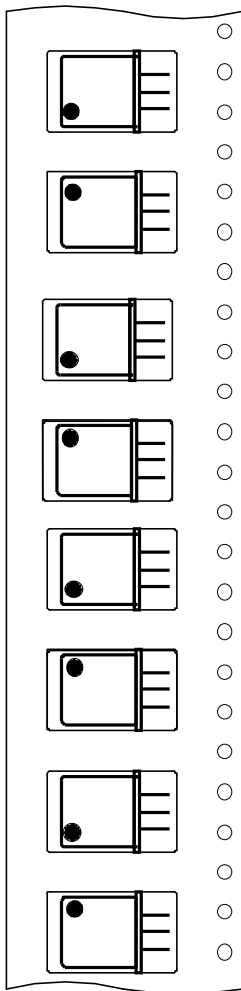
- | | |
|-------------|---|
| 3. Marking: | manufacturer, date code
21.4-1500/80 |
|-------------|---|

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

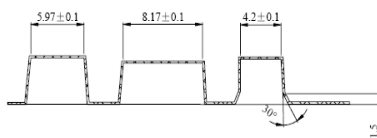
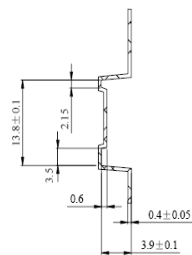
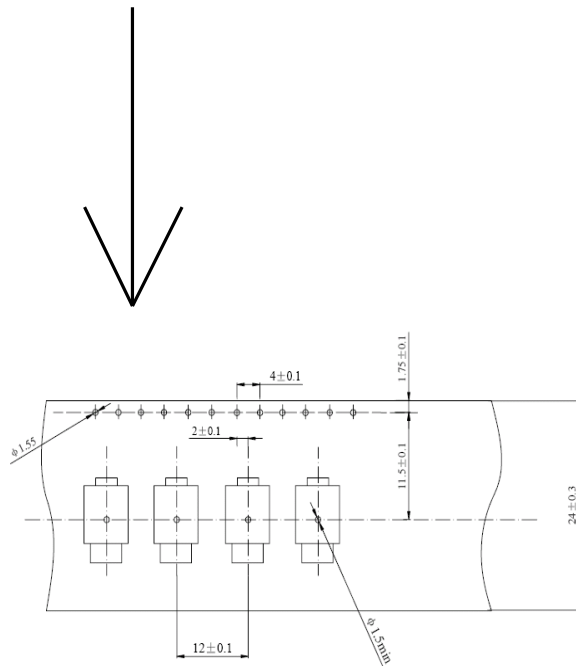
5. Reflow soldering for Pb-free assembly:

- > 100°C for maximum 600 seconds
 - > 200°C for maximum 180 seconds
 - > 260°C for maximum 30 seconds (peak temperature)
- cool - down time: 2 hours

6. Taping (500 pcs. / reel)



Pull off direction



Edited by: _____ date: _____ name: _____