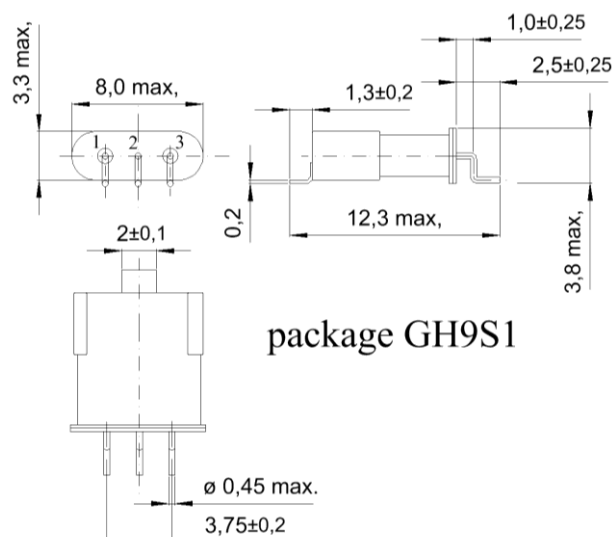


Specification for monolithic crystal filter:

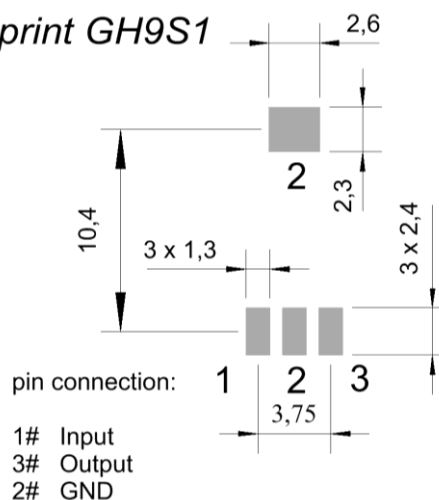
**MQF 21.4-3000/62**

# 1. General

## 1.1. Package:



## Footprint GH9S1



- |                                   |                  |
|-----------------------------------|------------------|
| 1.2. Type name:                   | MQF 21.4-3000/62 |
| 1.3. Number of poles:             | 2                |
| 1.4. Operating temperature range: | -40°C to +85°C   |
| 1.5. Storage temperature range:   | -55°C to +105°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:      | $\geq f_0 \pm 15$ kHz |
| 2.2.2. Ripple ( at $f_0 \pm 10$ kHz ):            | $\leq 1.0$ dB         |
| 2.2.3. Insertion loss:                            | $\leq 1.5$ dB         |
| ( measured on smallest attenuation in pass band ) |                       |

### 2.3. Stop band

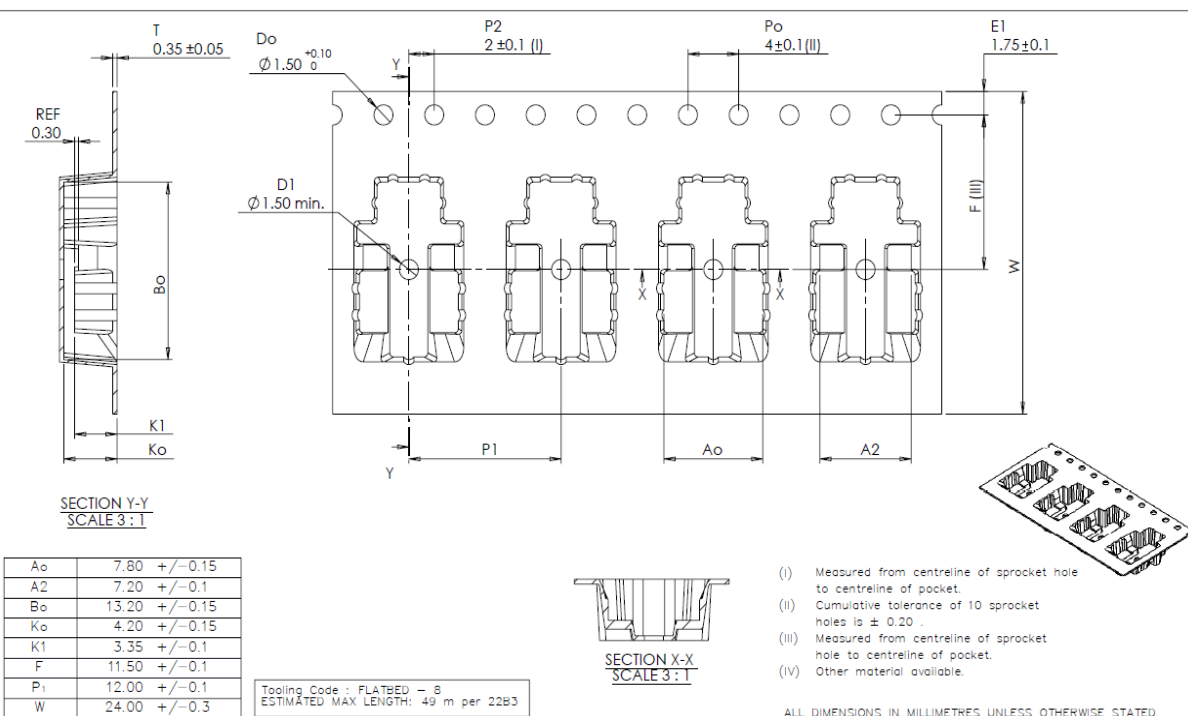
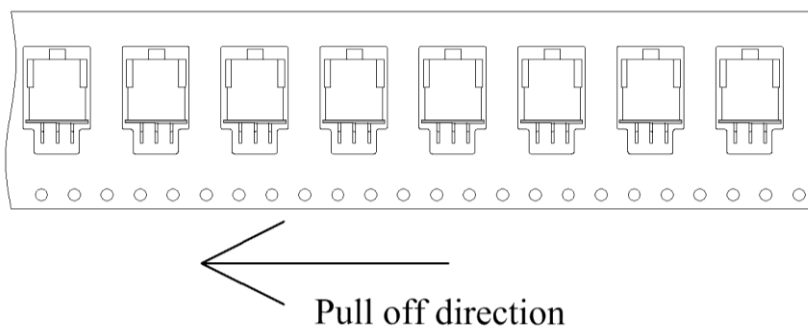
- |                                    |              |
|------------------------------------|--------------|
| 2.3.1. $f_0 \pm 45$ kHz            | $\geq 15$ dB |
| 2.3.2. $f_0 \pm 75$ kHz            | $\geq 20$ dB |
| 2.3.3. $f_0 + 300$ kHz.....+ 1 MHz | $\geq 35$ dB |
| 2.3.4. $f_0 - 300$ kHz.....- 1 MHz | $\geq 35$ dB |
| 2.3.5. Spurious responses:         | $\geq 8$ dB  |

- |                                                       |                         |
|-------------------------------------------------------|-------------------------|
| 2.4. Terminating impedance R//C ( input and output ): | 1500 $\Omega$ // 1.0 pF |
|-------------------------------------------------------|-------------------------|

- |             |                                         |
|-------------|-----------------------------------------|
| 3. Marking: | manufacturer, date code<br>21.4-3000/62 |
|-------------|-----------------------------------------|

- |                            |                                         |
|----------------------------|-----------------------------------------|
| 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. Packing ( maximum 1000 pcs. per reel )



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