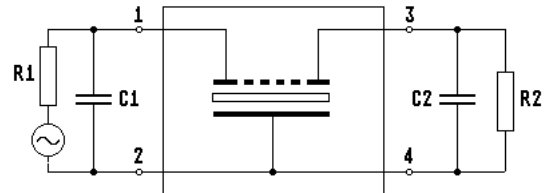
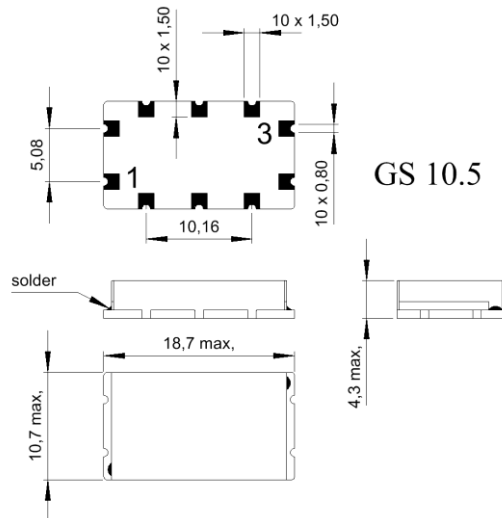


Specification for monolithic crystal filter:

**MQF 89.4 - 1500/06**

## 1. General

### 1.1. Package:



- |   |   |
|---|---|
| 1.2. Type name:   | MQF 89.4-1500/06                            |
| 1.3. Number of poles:   | 4   |
| 1.4. Operating temperature range:   | -30°C to +80°C                              |
| 1.4. Storage temperature range:   | -40°C to +85°C                              |
| <b>2. Electric values</b>   |   |
| 2.1. Nominal centre frequency $f_0$ :                                       | 89.4 MHz                                    |
| <b>2.2. Pass band</b>   |   |
| 2.2.1. Bandwidth between 3 dB – frequencies at 25°C:                        | $> f_0 \pm 7.5$ kHz                         |
| 2.2.2. Bandwidth between 3 dB in the range -30°C to +80°                    | $> f_0 \pm 6.5$ kHz                         |
| 2.2.3. Ripple:  | $< 2.0$ dB at $f_0 \pm 6.0$ kHz             |
| 2.2.4. Insertion loss:<br>( measured on smallest attenuation in pass band ) | $< 6.0$ dB                                  |
| <b>2.3. Stop band</b>   |   |
| 2.3.1. $f_0 \pm 25$ kHz   | $> 25$ dB                                   |
| 2.3.2. alternate attenuation $f_0 \pm 910$ kHz:                             | $> 80$ dB (except spurious)                 |
| 2.4. Group delay distortion $f_0 \pm 6.5$ kHz:                              | $< 25$ $\mu$ s                              |
| 2.5. Terminating impedance R//C ( input and output ):                       | $350 \Omega // 2.5$ pF                      |
| 2.6. Maximum input power level:   | 0 dBm                                       |
| 3. Marking:   | manufacturer, date code<br>MQF 89.4-1500/06 |
| 4. Environment conditions:  | Corresponding to Vectron standard CF001     |
| 5. Filters are Pb-free and 2002 /95 / EC RoHS compliant                     |   |

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