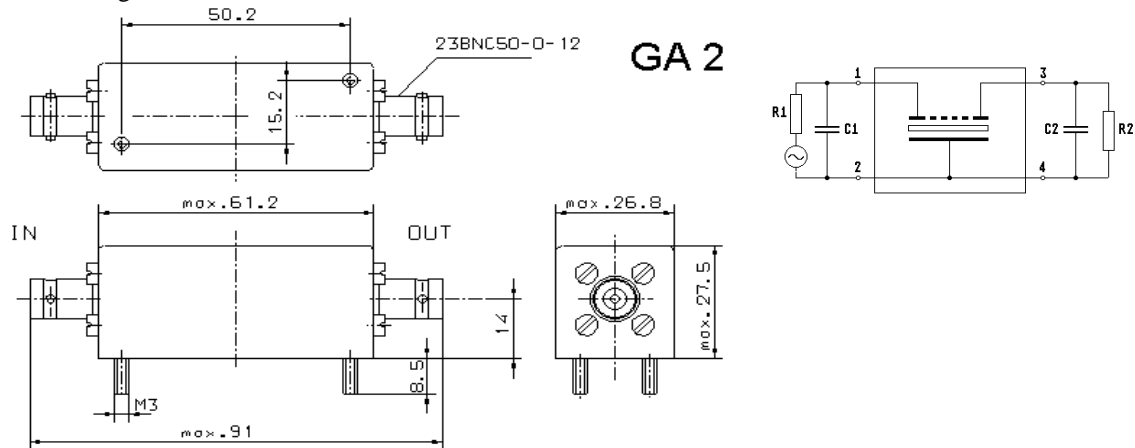


Specification for monolithic crystal filter series

**MQF 135.0.....180.0-1500/J**

**1. General**

1.1. Package:



- |                                   |                    |
|-----------------------------------|--------------------|
| 1.2. Type name:                   | MQF 1xx.xxx-1500/J |
| 1.3. Number of poles:             | 4                  |
| 1.4. Operating temperature range: | 0°C to +60°C       |
| 1.5. Operable temperature range:  | -20°C to +70°C     |
| 1.6. Storage temperature range:   | -40°C to +85°C     |

**2. Electric values**

- |   |  |
|---|--|
| 2.1. Nominal center frequency $f_0$ :             | 135.....180 MHz<br>T.B.D. by customer for each order |
| 2.2. <b>Pass band</b>                             |  |
| 2.2.1. Bandwidth between 3 dB - frequencies:      | $> f_0 \pm 7.5$ kHz                                  |
| 2.2.2. Ripple:                                    | $< 1.0$ dB at $f_0 \pm 4.0$ kHz                      |
| 2.2.3. Insertion loss:                            | $< 6.0$ dB   |
| ( measured on smallest attenuation in pass band ) |  |
| 2.3. <b>Stop band</b>                             |  |
| 2.3.1. $f_0 \pm 30$ kHz                           | $> 20$ dB  |
| 2.3.2. $f_0 \pm 60$ kHz                           | $> 45$ dB  |
| 2.3.3. Alternate attenuation                      | $> 50$ dB ( except spurious )                        |
| 2.3.4. Spurious responses:                        | $> 30$ dB at $f_0 + 30$ kHz $< f < f_0 + 2$ MHz      |
| 2.4. Terminating impedance ( input and output ):  | 50 $\Omega$ // 0 pF                                  |
| 2.5. Maximum input power level                    | nominal: -10 dBm<br>non-damaged: 0 dBm               |

- |             |   |
|-------------|---|
| 3. Marking: | manufacturer, date code<br>MQF 1xx.xxx-1500/J |
|-------------|---|

e. g. for center frequency 139.325 MHz filter part description is: MQF 139.325-1500/J

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

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