

# Monolithic crystal filter

## MQF90.0-2500/07



### Application

- 4 pol filter
- i.f.- filter
- use in mobile and stationary transceivers

### Limiting values

|                        |                         | Unit          | Value                 |
|------------------------|-------------------------|---------------|-----------------------|
| Center frequency       | $f_0$                   | MHz           | 90.0                  |
| Insertion loss         |                         | dB            | $\leq 6.0$            |
| Pass band at 3.0 dB    |                         | kHz           | $\pm 10.0 \dots 15.0$ |
| Ripple in pass band    | $f_0 \pm 6.00$ kHz      | dB            | $\leq 1.0$            |
| Stop band attenuation  | $f_0 \pm 25$ kHz        | dB            | $\geq 19$             |
|                        | $f_0 \pm 50$ kHz        | dB            | $> 34$                |
| Alternate attenuation  | $f_0 + 0.5 \dots 1$ MHz | dB            | $> 70$                |
|                        | $f_0 - 0.3 \dots 1$ MHz | dB            | $> 70$                |
| Group delay distortion | $f_0 \pm 9$ kHz         | $\mu\text{s}$ | $< 14$                |

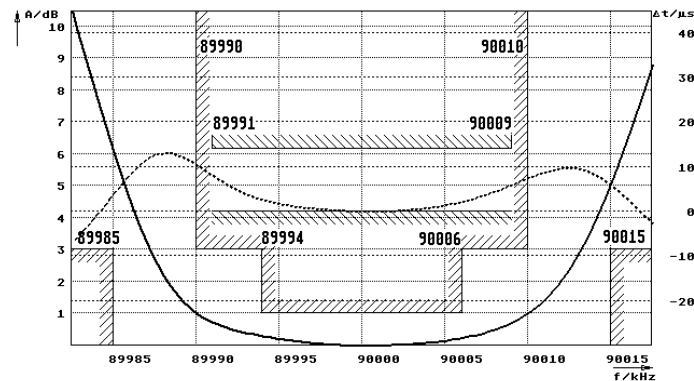
### Terminating impedance Z

|                      |        |            |
|----------------------|--------|------------|
| R1    C1             | Ohm/pF | 310    1.2 |
| R2    C2             | Ohm/pF | 310    1.2 |
| Coupling capacitance | pF     | 8          |

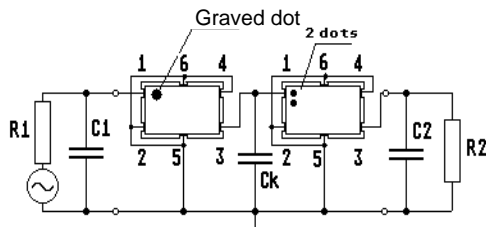
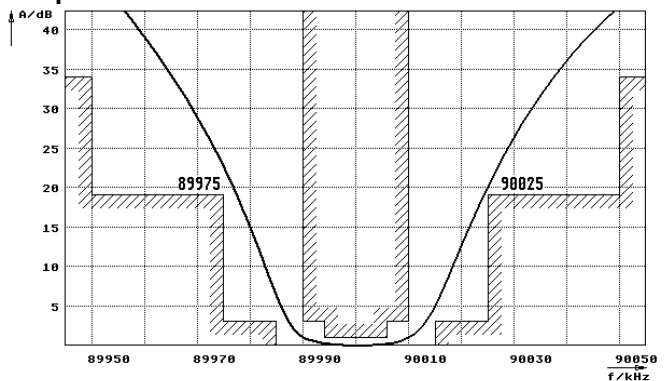
|                       |                    |            |
|-----------------------|--------------------|------------|
| Operating temp. range | $^{\circ}\text{C}$ | -20... +55 |
|-----------------------|--------------------|------------|

### Characteristics MQF90.0-2500/07

#### Pass band

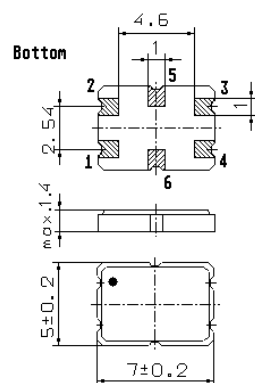


#### Stop band



Pin connections:

|      |        |
|------|--------|
| 1    | Input  |
| 2, 4 | Ground |
| 3    | Output |
| 5, 6 | Ground |



GS 2