

| Monolithic Crystal Filter 45 MHz |      |      |           |           |           |           |           |           |           |        |         |                      |        |
|----------------------------------|------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|---------|----------------------|--------|
| Channel spacing 12.5 kHz         |      |      |           |           |           |           |           |           |           |        |         |                      |        |
| Type                             | Pole | Loss | Passband  | Ripple    | Stopband  |           |           |           | Impedance |        | Remarks | Case                 |        |
|                                  | No.  | /dB  | /dB /±kHz | /dB /±kHz | /dB /±kHz | /dB /±kHz | /dB /±kHz | /dB /±kHz | /dB /±kHz | R/Ohm  | C/pF    |                      |        |
| <a href="#">MQF45.0-0750/12</a>  | 2    | 2.0  | 3.0 3.75  | 1.0 3.0   | 15        | 12.50     | 45        |           |           | 350    | 11.00   |                      | GH 9   |
| <a href="#">MQF45.0-0750/06</a>  | 4    | 4.0  | 3.0 3.75  | 1.0 2.5   | 30        | 12.50     | 90        | 10.00     |           | 350    | 6.50    | Ck=18pF              | 2 GH 9 |
| <a href="#">MQF45.0-0750/20</a>  | 4    | 5.0  | 3.0 3.75  | 1.0 3.0   | 30        | 12.50     | 90        | 910.00    |           | 350    | 6.50    | Ck=18pF              | 2 GH9S |
| <a href="#">MQF45.0-0750/03</a>  | 6    | 6.0  | 3.0 3.75  | 2.0 3.0   | 50        | 12.50     | 80        | 10.00     |           | 350    | 5.00    |                      | GV 2.1 |
| <a href="#">MQF45.0-0750/04</a>  | 8    | 7.0  | 3.0 3.75  | 2.0 3.0   | 65        | 12.50     | 80        | 25.00     |           | 350    | 5.00    |                      | GV 3   |
| Channel spacing 20 kHz           |      |      |           |           |           |           |           |           |           |        |         |                      |        |
| Type                             | Pole | Loss | Passband  | Ripple    | Stopband  |           |           |           | Impedance |        | Remarks | Case                 |        |
|                                  | No.  | /dB  | /dB /±kHz | /dB /±kHz | /dB /±kHz | /dB /±kHz | /dB /±kHz | /dB /±kHz | /dB /±kHz | R/Ohm  | C/pF    |                      |        |
| <a href="#">MQF45.0-1200/08</a>  | 2    | 3.0  | 3.0 6.00  | 1.0 3.6   | 15        | 20.00     | 65        | 910.00    |           | 550    | 6.00    |                      | GH 9   |
| <a href="#">MQF45.0-1200/09</a>  | 4    | 4.0  | 3.0 6.00  | 1.0 4.0   | 30        | 20.00     | 45        | 27.00     |           | 500    | 4.00    | Ck=12pF              | 2 GH 9 |
| <a href="#">MQF45.0-1200/13</a>  | 6    | 4.0  | 3.0 6.00  | 2.0 4.0   | 60        | 20.00     | 90        | 910.00    |           | 500    | 4.50    |                      | GV 2.1 |
| Channel spacing 25 kHz           |      |      |           |           |           |           |           |           |           |        |         |                      |        |
| Type                             | Pole | Loss | Passband  | Ripple    | Stopband  |           |           |           | Impedance |        | Remarks | Case                 |        |
|                                  | No.  | /dB  | /dB /±kHz | /dB /±kHz | /dB /±kHz | /dB /±kHz | /dB /±kHz | /dB /±kHz | /dB /±kHz | R/Ohm  | C/pF    |                      |        |
| <a href="#">MQF45.0-1500/06</a>  | 2    | 2.0  | 3.0 7.50  | 1.0 5.0   | 18        | 28.00     | 40        | 500.00    |           | 4000   | -1.50   | 3d overtone          | GH 2   |
| <a href="#">MQF45.0-1500/09</a>  | 2    | 2.0  | 3.0 7.50  | 1.0 6.0   | 15        | 25.00     | 65        | 910.00    |           | 650    | 4.70    |                      | GH 9   |
| <a href="#">MQF45.0-1500/17</a>  | 2    | 2.0  | 3.0 7.50  | 1.0 5.0   | 18        | 28.00     | 40        | 500.00    |           | 200    | 1.00    |                      | GH 9S  |
| <a href="#">MQF45.0-1500/10</a>  | 4    | 3.0  | 3.0 7.50  | 1.0 5.0   | 30        | 25.00     | 90        | 910.00    |           | 650    | 3.00    | Ck=10pF              | 2 GH 9 |
| <a href="#">MQF45.0-1500/11</a>  | 6    | 5.0  | 3.0 7.50  | 2.0 6.0   | 60        | 25.00     | 80        | 910.00    |           | 650    | 1.50    |                      | GV 2.1 |
| <a href="#">MQF45.0-1500/04</a>  | 8    | 6.0  | 3.0 7.50  | 2.0 6.0   | 60        | 20.00     | 75        | 25.00     |           | 650    | 1.50    |                      | GV 3   |
| <a href="#">MQF45.0-1500/12</a>  | 8    | 6.0  | 3.0 7.50  | 2.0 5.0   | 80        | 25.00     | 80        |           |           | 650    | 1.50    |                      | GV 2.1 |
| Channel spacing 50 kHz           |      |      |           |           |           |           |           |           |           |        |         |                      |        |
| Type                             | Pole | Loss | Passband  | Ripple    | Stopband  |           |           |           | Impedance |        | Remarks | Case                 |        |
|                                  | No.  | /dB  | /dB /±kHz | /dB /±kHz | /dB /±kHz | /dB /±kHz | /dB /±kHz | /dB /±kHz | /dB /±kHz | R/Ohm  | C/pF    |                      |        |
| <a href="#">MQF45.0-3000/01</a>  | 2    | 2.0  | 3.0 15.00 | 1.0 10.0  | 15        | 50.00     | 65        | -910.00   |           | 650    | 4.00    |                      | GH 9   |
| <a href="#">MQF45.0-3000/02</a>  | 4    | 3.0  | 3.0 15.00 | 1.0 10.0  | 40        | 50.00     | 80        | 910.00    |           | 650    | 3.00    | Ck=7.9pF             | 2 GH 9 |
| <a href="#">MQF45.0-3000/09</a>  | 4    | 3.0  | 6.0 15.00 | Gaussian  | 25        | 30.00     | 50        | 60        |           | 650.00 | 2.00    | tg<15µs;<br>fo±15kHz | 2 GH 9 |
| <a href="#">MQF45.0-3000/14</a>  | 4    | 4.0  | 1.0 15.00 | 0.5 10.0  | 60        | 15.00     | 70        |           |           | 50     | 0.00    |                      | GM 3   |
| <a href="#">MQF45.0-3000/03</a>  | 6    | 4.0  | 3.0 15.00 | 2.0 10.0  | 60        | 40.00     | 80        | 60.00     |           | 650    | 2.00    |                      | GV 2.1 |
| <a href="#">MQF45.0-3000/12</a>  | 8    | 3.0  | 3.0 15.00 | 1.0 10.0  | 35        | 25.00     | 65        | 35.00     |           | 470    | 3.00    |                      | GV 3   |

<http://www.vectron.com/products/saw/mqf.htm>