Specification for monolithic crystal filter

1. General

1.1. Package:

The filters have to be lead-free and RoHS conform.

1.2. Type name:

MQF 109.35-1200/01

1.3. Number of poles:

3

1.4. Operating temperature range:

-10°C to +70°C

1.5. Storage temperature range:

-25°C to +80°C

2. Electric values

2.1. Nominal centre frequency f0:

109.35 MHz

2.2. Pass band

2.2.1. Bandwidth between 3 dB - frequencies:

≥ f0 ± 6.0 kHz

2.2.2. Ripple:

≤ 1.0 dB at f0 ± 4.0 kHz

2.2.3. Insertion loss:

≤ 3.0 dB

( measured on smallest attenuation in pass band )

2.3. Stop band

2.3.1. f0 ± 25 kHz

> 15 dB

2.3.2. f0 -350 kHz...........1 MHz

> 50 dB

2.3.3. Alternate attenuation

> 70 dB ( except spurious )

2.3.4. Spurious responses

+30 kHz........+500 kHz

> 12 dB

+500 kHz........+910 kHz

> 23 dB

+910 kHz........+1.0 MHz

> 40 dB

2.4. Terminating impedance ( input and output ):

950 Ω // 1.4 pF

2.5. Out band intermodulation ( IP3 > 20 dBm )

- frequencies:

109.25 / 109.15 MHz and 109.45 / 109.55 MHz

- power level at pin 1:

-20 dBm

- relative attenuation at fo relating to level at pin 1:

> 80 dB

3. Marking:

M109A

VI date code

4. Environment conditions:

Corresponding to Vectron standard CF001