Specification for crystal filter: QF 124.8-7000/02

1. General

1.1. Package:

Filters are Pb-free and 2002/95 / EC RoHS compliant

1.2. Type name: QF 124.8-7000/02

1.3. Number of poles: 4

1.4. Operating temperature range: -40°C to +85°C

1.5. Storage temperature range: -45°C to +85°C

2. Electric values

2.1. Nominal centre frequency (fo): 124.8 MHz

2.2. Center frequency at +25°C (fc): 124.8 MHz ± 2.0 kHz

2.3. Pass band

2.3.1. Bandwidth between 3 dB – frequencies: > fc ± 35 kHz

2.3.2. Ripple in pass band peak to peak: < 0.5 dB

2.3.3. Insertion loss: < 4.0 dB

( measured on smallest attenuation in pass band )

2.3.4. Group delay absolute at fc: 10 µs ± 2 µs

2.3.5. Group delay distortion < 2.5 µs at fc ± 35 kHz

2.4. Stop band

2.4.1. fc ± 60 kHz > 6 dB

2.4.2. fc ± 120 kHz > 30 dB

2.4.3. fc +150 kHz / -170 kHz > 40 dB

2.4.4. fc ± 350 kHz > 60 dB

2.4.5. fc -768 kHz > 70 dB

2.4.6. Ultimate attenuation > 60 dB

2.4.7. Spurious responses > 30 dB

fc +150kHz…….+5.0 MHz: > 30 dB

40 MHz…………..90 MHz: > 10 dB

2.5. Terminating impedance R//C (input and output): 50 Ω // 0 pF

2.6. Maximum input power level (working and for reference measurements / non damaged ) -10 dBm / +8 dBm

3. Marking:

manufacturer, date code
QF 124.8-7000/02

4. Environment conditions:

according to Vectron standard CF001

Edited by: ____________________________ date: ____________ name: ____________________________