Specification for crystal filter: QF 124.8 - 3200/01

1. General

1.1. Package: Filters are Pb-free and 2002/95/EC RoHS compliant

1.2. Type name: QF 124.8-3200

1.3. Number of poles: 3

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. Pass band

2.2.1. Bandwidth between 3 dB – frequencies: > fo ± 16 kHz

2.2.2. Ripple in pass band peak to peak: < 2.0 dB

2.2.3. Insertion loss: < 6.0 dB

2.2.4. Return loss: > 6.0 dB at fo ± 16 kHz

2.2.5. Group delay absolute at fo: 11 µs ± 3 µs

2.2.6. Group delay distortion @ -10 dBm input power maximum < 3.5 µs at fo ± 16 kHz

2.3. Stop band

2.3.1. fo ± 100 kHz > 25 dB

2.3.2. fo - 384 kHz ± 32 kHz > 45 dB

2.3.3. fo - 768 kHz ± 32 kHz > 70 dB

2.3.4. fo - 800 kHz…….-10 MHz > 50 dB

2.3.5. fo + 800 kHz…….+10 MHz > 50 dB except spurious

2.3.6. fo + 256 kHz ± 32 kHz > 30 dB

2.3.7. spurious responses at frequencies > fo+500 kHz > 15 dB

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

2.5. Maximum input power level working (except 2.2.6.): +3 dBm

2.5.1. Maximum input power level non damaged: +10 dBm

2.6. 3-rd order Intermodulation products at input power of -14 dBm with test tones frequencies ± 50 kHz / ± 100 kHz: min. 60dB down from both -14dBm tones

3. Marking: manufacturer, date code QF 124.8-3200/01

4. Environment conditions: Corresponding to Vectron MIL standard

Edited by: ___________________________ date: ____________ name: ___________________________