Specification for LC band pass filter: LC 113.0-10.0/06

1. General
1.1. Package:

1.2. Type name: LC 113.0-10.0/06
1.3. Number of poles: 6
1.4. Operating temperature range: -40°C to +85°C
1.5. Storage temperature range: -55°C to +125°C

2. Electric values
2.1. Nominal centre frequency fo: 113.0 MHz

2.2. Pass band
2.2.1. Centre frequency fc at +25°C: 113.0 MHz ± 500 kHz
2.2.2. Bandwidth between 3 dB - frequencies: > fc ± 5.0 MHz
2.2.3. Ripple in pass band (peak to peak): < 1.0 dB
2.2.4. Insertion loss: ≤ 5.0 dB

2.3. Stop band
2.3.1. fc ± 7.0 MHz ≥ 10 dB
2.3.2. fc ± 8.0 MHz ≥ 20 dB
2.3.3. fc ± 9.5 MHz ≥ 30 dB
2.3.4. fc ± 11.0 MHz ≥ 40 dB
2.3.5. Alternate attenuation ≥ 80 dB

2.4. Terminating impedance (input and output): 50 Ω // 0 pF
2.5. 3-rd order intermodulation products measured at 108.1 MHz:
test tones 107.7 MHz / 107.3 MHz, power level -24 dBm: -110 dBm (86 dB down from test tones)
test tones 97.9 MHz / 103.0 MHz, power level -1.9 dBm: -110 dBm (86 dB down from test tones)
test tones 98.0 MHz / 87.9 MHz, power level +4.1 dBm: -110 dBm (86 dB down from test tones)

2.6. Maximum input power level: +25 dBm / +30 dBm (working / non-damaged)

3. Marking:

4. Environment conditions: Corresponding to Vectron MIL Standard 202

Edited by: _______________ date: _______________ name: _______________