1. General
1.1. Package:
The filters have to be RoHS conform

2. Electric values
2.1. Nominal centre frequency fo: 109.65 MHz

2.2. Pass band
2.2.1. Bandwidth between 3 dB - frequencies: \( \geq f_0 \pm 6.0 \text{ kHz} \)
2.2.2. Ripple: \( \leq 1.0 \text{ dB at } f_0 \pm 3.0 \text{ kHz} \)
2.2.3. Insertion loss:
\( \leq 5.0 \text{ dB} \)
\( \text{ (measured on smallest attenuation in pass band)} \)

2.3. Stop band
2.3.1. \( f_0 \pm 65 \text{ kHz} \) > 60 dB
2.3.2. Alternate attenuation at \( f_0 \pm 900 \text{ kHz} \) > 75 dB (except spurious)
2.3.3. Spurious responses > 25 dB

2.4. Terminating impedance (input and output): 50 \( \Omega \) // 0 pF

2.5. Out band intermodulation
- test tones frequencies: 109.70 / 109.75 MHz and 109.60 / 109.55 MHz
- input power level at pin 1: -10 dBm
- relative attenuation at \( f_0 \) relating to level at pin 1: > 80 dB (down from both -10 dBm test tones)

2.5.1. In band intermodulation
- test tones frequencies: \( \pm 1.0 \text{ kHz} \)
- input power level at pin 1: -15 dBm
- relative attenuation at 109.653 / 109.647 relating to level at pin 1: > 50 dB (down from both -10 dBm test tones)

2.6. Maximum input power level:
-10 / +10 dBm (working / non-damaged)

3. Marking:
manufacturer, date code
MQF 109.65-1200/06

4. Environment conditions:
Vectron MIL-standard