Specification for LC band pass filter: **LC 187.5-65.0/06**

### 1. General

#### 1.1. Package:

- **Type name:** LC 187.5-65.0/06
- **Number of poles:** 10
- **Operating temperature range:** -40°C to +85°C
- **Storage temperature range:** -55°C to +105°C

#### 1.2. Reflow soldering

**Temperature (°C)**

<table>
<thead>
<tr>
<th>Temperature (°C)</th>
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</thead>
<tbody>
<tr>
<td>0</td>
</tr>
<tr>
<td>260°C max.</td>
</tr>
<tr>
<td>217</td>
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</tbody>
</table>

**Time (s)**

- **max 300s**
- **10,...,30s**
- **30,...,150s**

Reflow soldering: three times max.
2. Electric values

2.1. Nominal centre frequency fo: 187.5 MHz

2.2. Pass band

2.2.1. Bandwidth at 2.0 dB: > fo ± 32.5 MHz

2.2.2. Ripple in pass band: < 1.0 dB (peak to peak)

2.2.3. Absolute group delay at fo: 24 ns ± 3.0 ns

2.2.4. Absolute group delay variation (unit-to-unit) at fo < ± 1.5 ns (matching in groups of 5 filters each if necessary)

2.2.5. Insertion loss: < 3.0 dB

2.2.6. Return loss (Input / Output)
fo ± 22.5 MHz: > 15 dB
fo ± 32.5 MHz: > 12 dB

2.3. Stop band

2.3.1. fo + 80.5 MHz > 50 dB

2.3.2. Alternate attenuation: > 70 dB

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

2.5. Maximum power level (working non-damaged): +10 dBm / +20 dBm

3. Marking:

4. Environment conditions: Vectron MIL - standard

5. Packing: tape & reel, maximum 500 pcs. / reel

Edited by: date: __________________________ name: __________________________