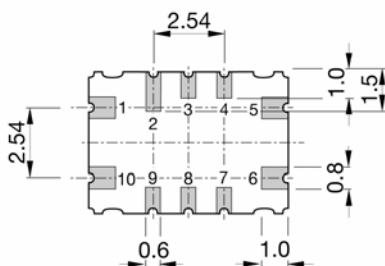
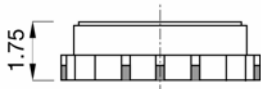
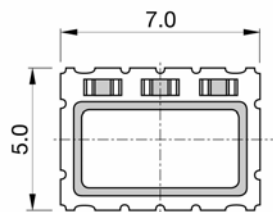


**Specifications**

Nominal Frequency Fo	50.0000 MHz	
Frequency stability:		
vs. temperature	≤±0.5 ppm over -40 ~ +85 °C; ≤± 3.0 ppm over -55C to -40C and over +85C to +95C	
vs. supply change	≤±0.2 ppm	±5 %
vs. load change	≤±0.1 ppm	±5 %
vs. aging:	≤±1.0 ppm	1st year
Short term stability ADEV	< 1 x 10 <sup>-10</sup>	τ = 1 sec.
Frequency tolerance ex factory	≤ ±1.0 ppm	@+25 °C
Supply voltage	+3.3 V	±5 %
Current consumption	< 10 mA	
Output waveform	>1V p-p	Clipped sine wave
Output load	10Kohm // 10 pF	
Start-up time	< 5 ms	
Tri-state function	pin # 9 high or open pin # 9 low	pin # 6 → oscillation pin # 6 → high Impedance
Phase noise @ 50 MHz carrier frequency	-110 dBc/Hz -130 dBc/Hz -145 dBc/Hz	@ 100 Hz @ 1 kHz @ 10 kHz
Operating temperature range	-55 ~ +95 °C	
Storage temperature range	-55 ~ +125 °C	
Packing units	tape & reel	500 or 1'000 pcs

**Mechanical Drawing and PIN Connection**

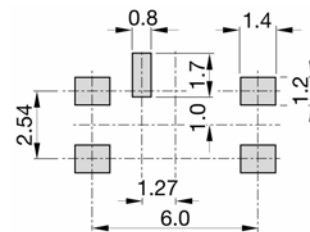


**Pin function**

- # 1 not connected
- # 5 GND
- # 6 Output
- # 9 NC or E/D
- # 10 Vdc

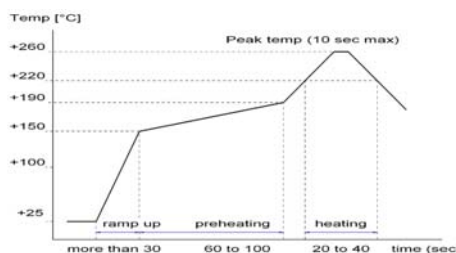
Do not connect  
#2, #3, #4, #7, #8

**Example for solder pattern**



*Do not design any conductive path between the pattern*

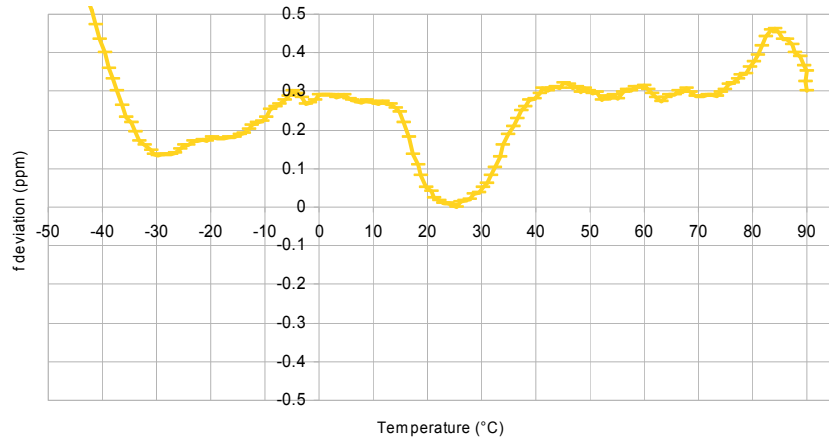
**Example for IR reflow soldering temperature**



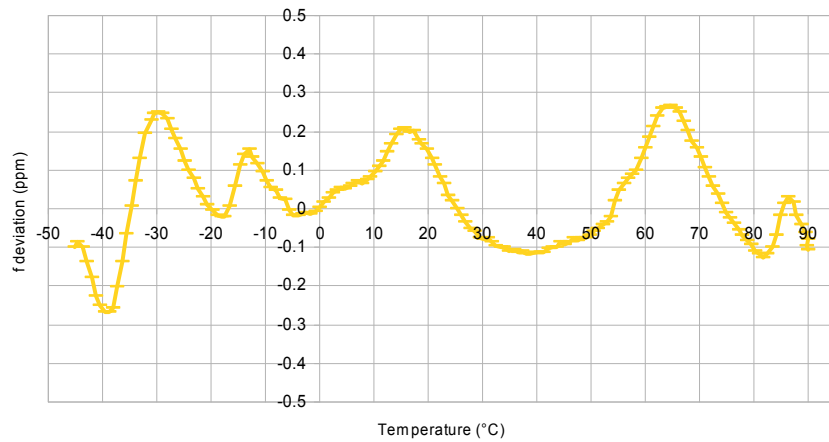
## Final Inspection Test Data

### 1. Frequency deviation vs. temperature, measured over -45 up to +90 °C

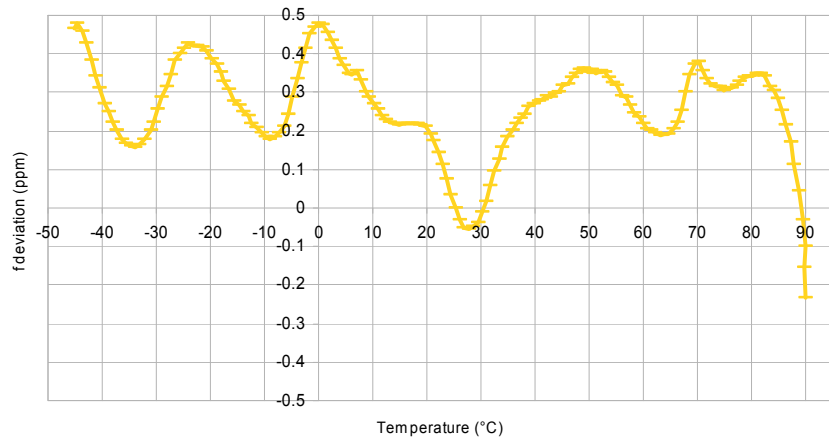
No: 1-23



No: 2-16



No: 3-15

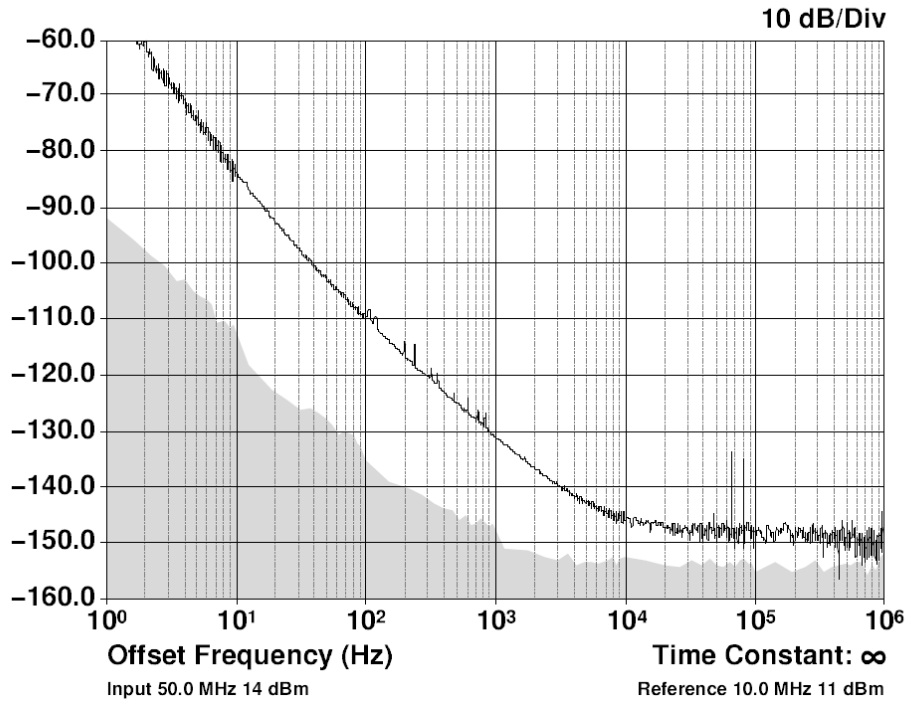


## 2. Phase noise

21 Aug 2012 06:47:47  
11m

### $\mathcal{L}(f)$ Phase Noise at 50.0 MHz (dBc/Hz)

Symmetricom 5125A



## 3. ADEV

20 Aug 2012 06:44:48  
7m

### Allan Deviation $\sigma_y(\tau)$

Symmetricom 5125A

