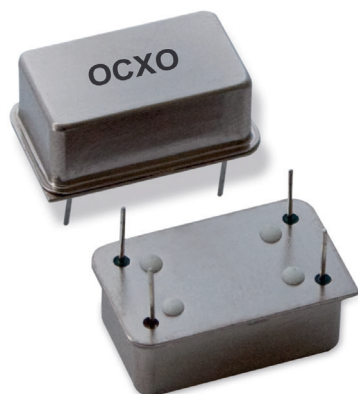
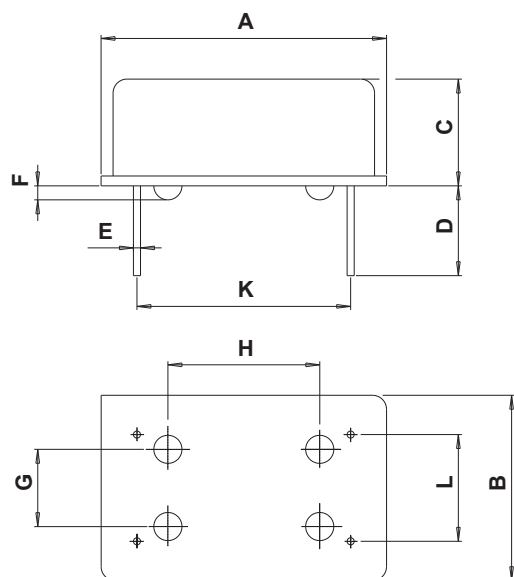




1) Package dimension:



Through holes versions

Dimensions (typ.):

	In.	mm
A	0.80 ±0.003	20.14 ±0.08
B	0.493 ±0.003	12.52 ±0.08
C	0.307 ±0.008	7.8 ±0.2
D	0.25 ±0.002	6.35 ±0.5
E	0.018 ±0.0025	0.46 ±0.06
F	0.032 ±0.006	0.8 ±0.15
G	0.21 ±0.005	5.35 ±0.13
H	0.42 ±0.005	10.7 ±0.13
K	0.60 ±0.005	15.24 ±0.13
L	0.30 ±0.005	7.62 ±0.13

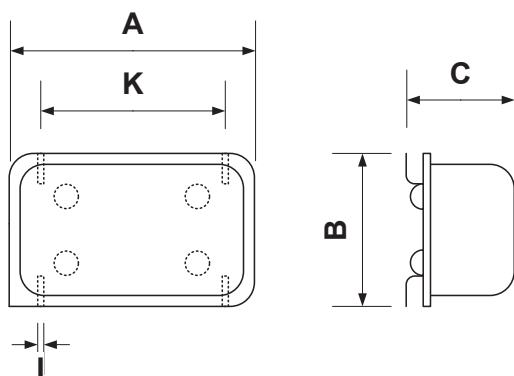
Pin Out:

1	Frequency adjustment
7	GND
8	Output
14	Vdd

Recommended pins soldering:

235°C ±5°C, t = 10s ±0.5s
(260°C max for 5s max)

2) Package dimension:



SMD version (option D2):

Dimensions (typ.):

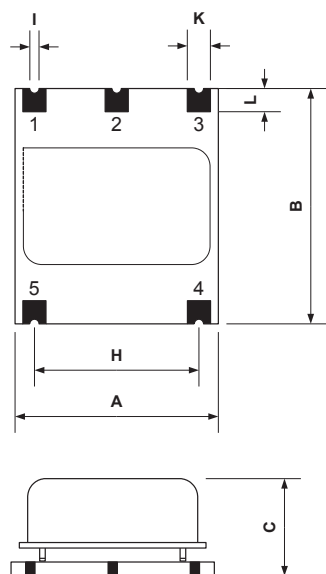
	In.	mm
A	0.80 ±0.003	20.14 ±0.08
B	0.493 ±0.003	12.52 ±0.08
C	0.374 ±0.008	9.5 ±0.2
K	0.60 ±0.005	15.24 ±0.13
I	0.018 ±0.0025	0.46 ±0.06

Pin Out:

1	Frequency adjustment
2	GND
3	Output
4	Vdd

3) Package dimension:

SMD version (option D1)



Dimensions (max.):

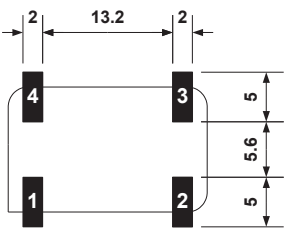
	In.	mm
A	0.87	22.0
B	1.00	25.4
C	0.41	10.5
H	0.70	17.8
I	Ø 0.04	Ø 1.0
K	0.10	2.5
L	0.10	2.5

Pin Out:

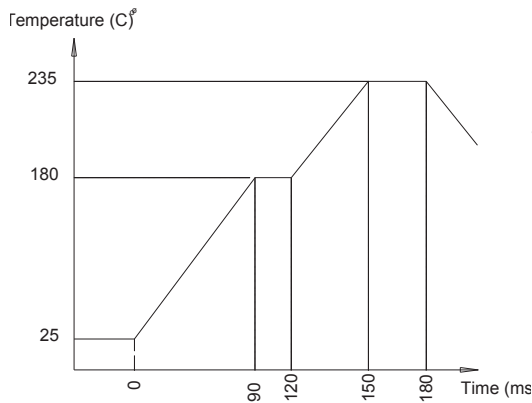
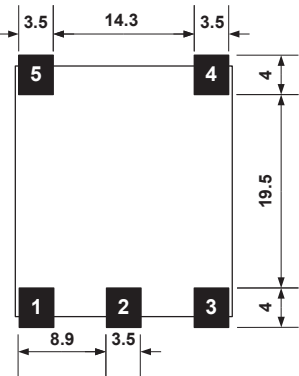
- 1 Frequency adjustment
- 2 NC
- 3 Vdd
- 4 Output
- 5 GND

4) Recommended solder pad layout & soldering conditions:

Solder pad layout: Option D2



Solder pad layout: Option D1



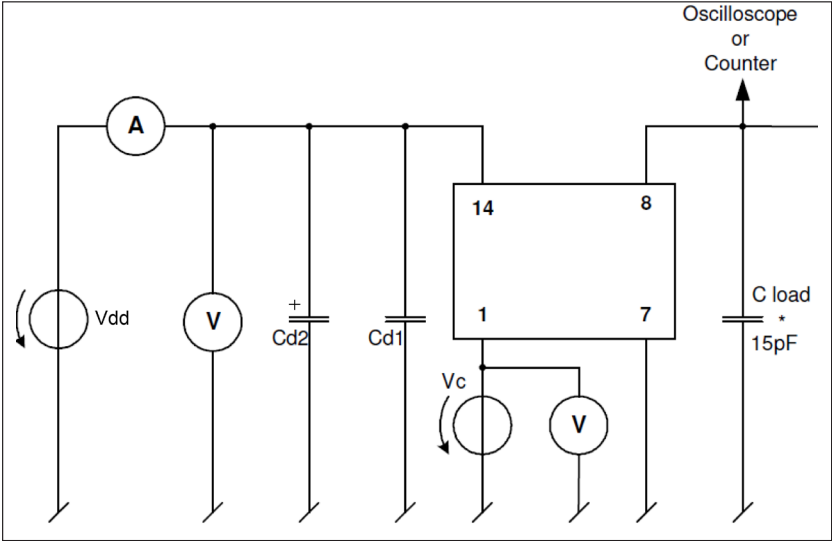
Reflow soldering conditions

Reflow rate: 3°C/sec. max

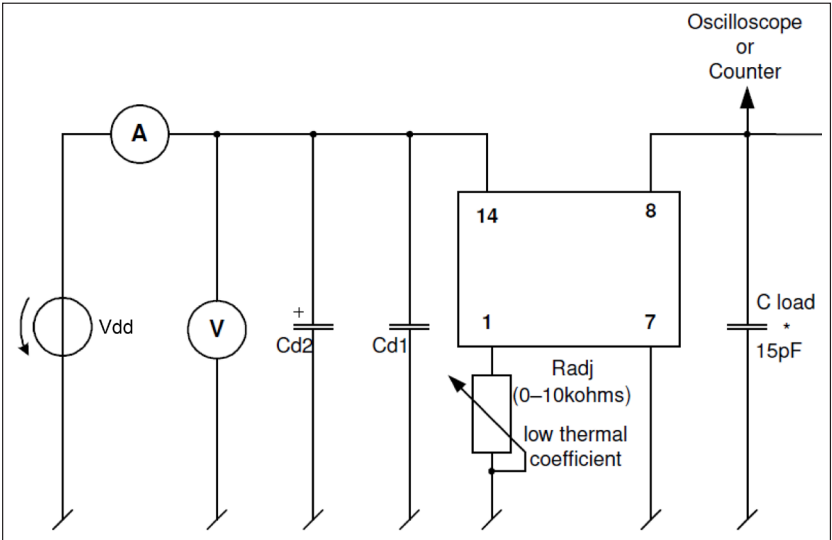
Wave soldering: Temp. peak up to 260°C
allowed for 5s (on pins)

5) Test Circuit

V5 or V3

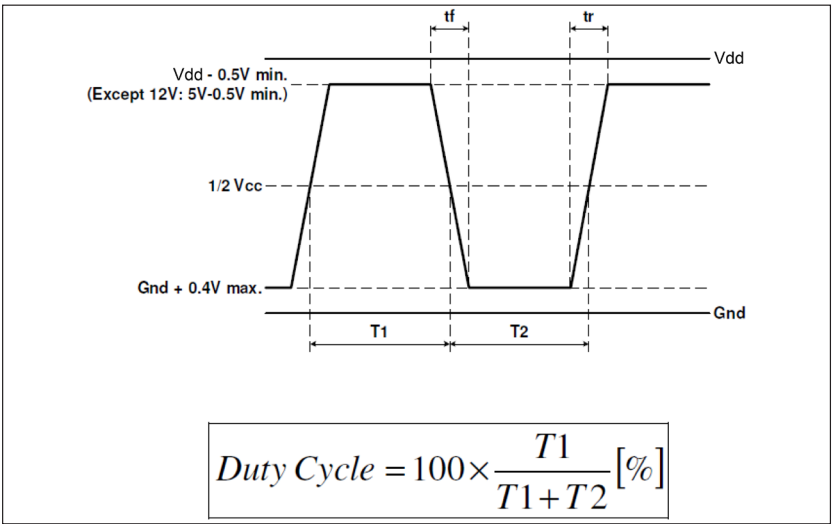


R1



6) Output Signal Wave Form

HC-MOS

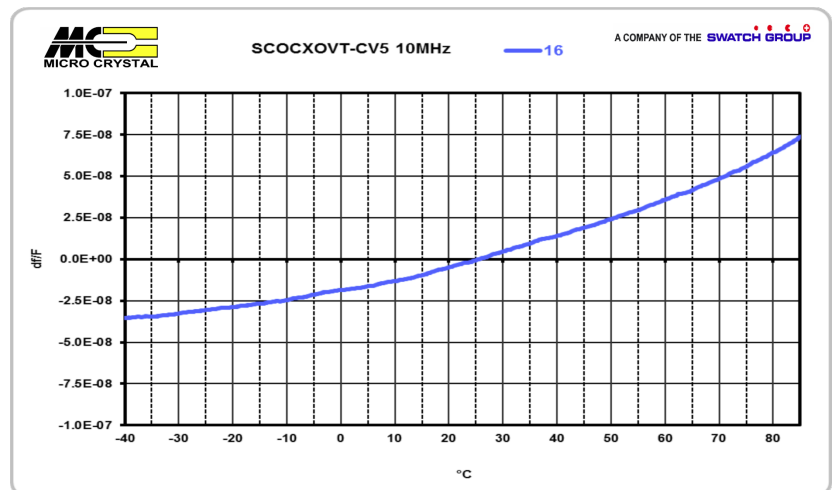


7) Typical L performance

Temperature Range C -40°C to +85°C

Test Conditions

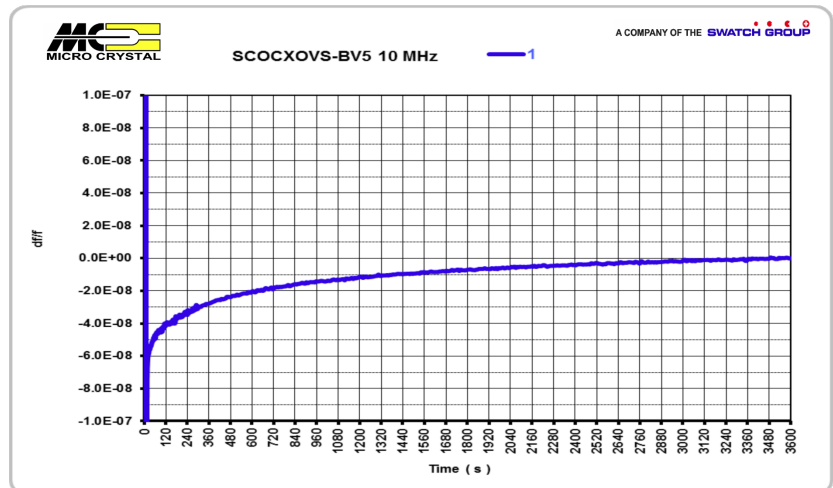
- Still Air Flow
- Thermal Gradient < 30°C/hour
- Nominal Supply Voltage



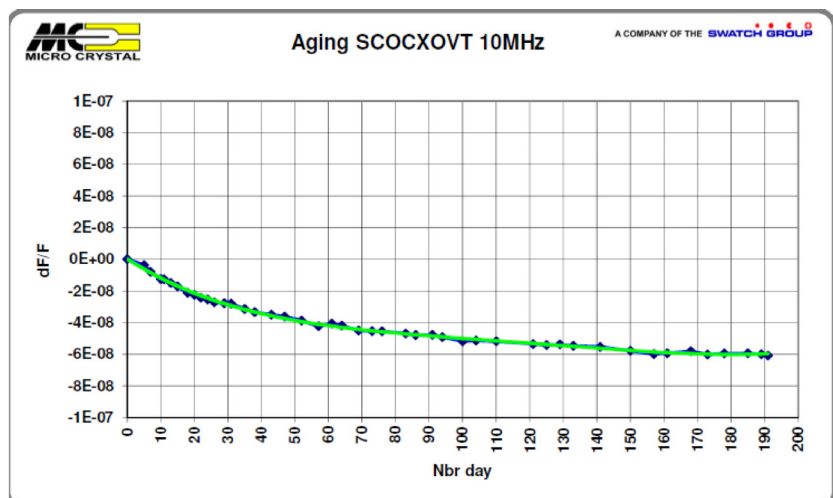
Warm-up (Re-Stabilization)

Test Conditions

- Ambient Temperature 25°C , Still Air Flow
- Frequency relative to that 1 hour after turn-on, following 24 hours off time
- Nominal Supply Voltage



Typical Aging

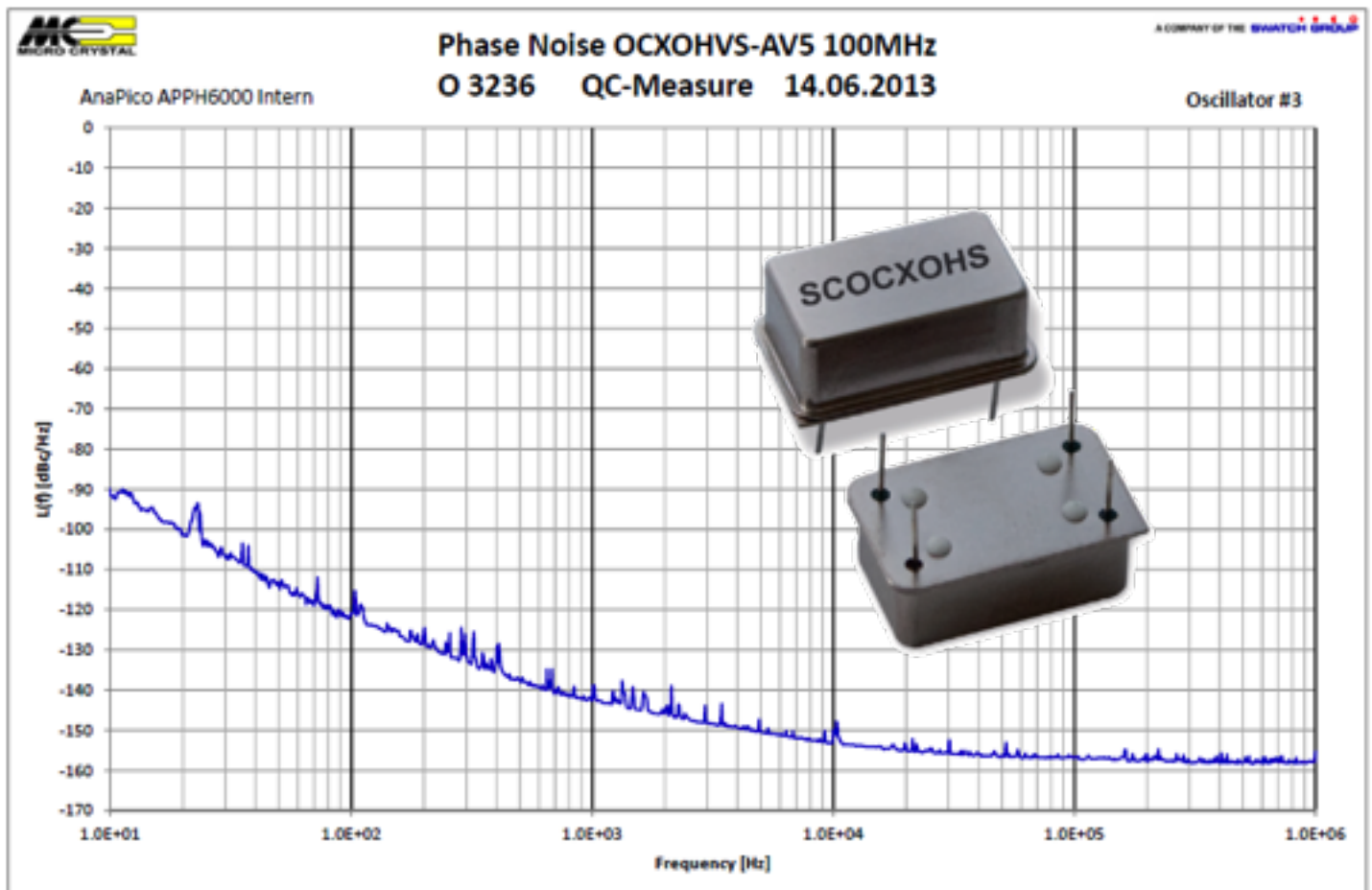


Phase Noise

(typical, Static Conditions)

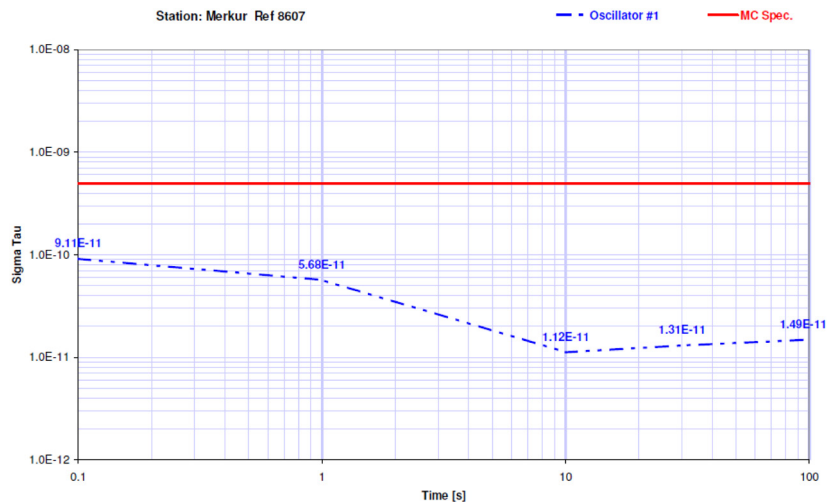
BW = 1Hz

	10MHz	100MHz	dBc/Hz
10Hz	-110	-90	
100Hz	-140	-120	
1kHz	-155	-140	
10kHz	-160	-153	
100kHz	-160	-158	



Short Term Stability

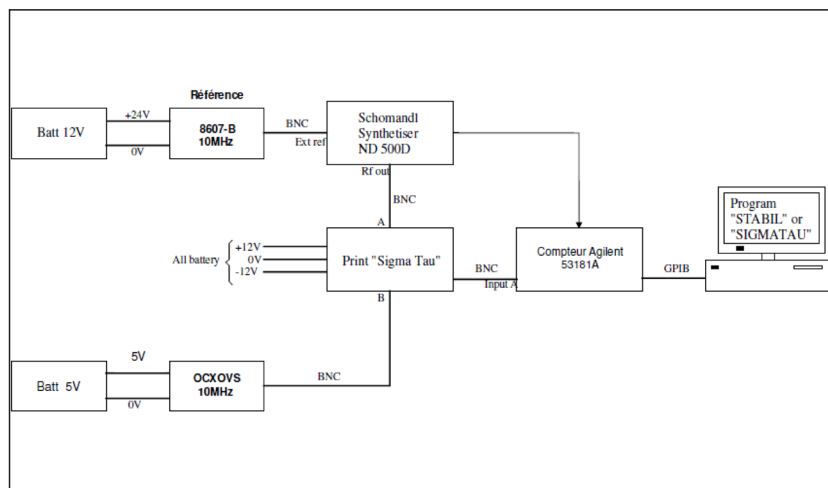
Typical results *Sinus Output 10MHz*
5V version



Sigma Tau Bench Test

Test Conditions

- Ambient temperature 25°C Still Air Flow
- Static Conditions (no vibrations)
- Nominal Supply Voltage



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