



Crystal Oscillators

VC-TCOCXO/7050 SMD/ ± 50 ppb/ $-40\sim+85^{\circ}\text{C}$
 26.000MHz/3.3V/AS026000MA

Description

AS026000HA is Oven Controlled Voltage Controlled Crystal Oscillator(VC-TCOCXO) of the SMD 7×5mm package. OCGO Series can be output to 6~160MHz by Operating Voltage:3.3V(Oscillation) and 3.3V(Oven Heater:0.2w)in the heaterpower supply. As for the frequency stability level, ± 50 ppb is $-40\sim+85^{\circ}\text{C}$ possible.

Feature

- 7×5×1.85mm SMD 10pin PKG
- Frequency stability: ± 50 ppb/ $-40\sim+85^{\circ}\text{C}/3.3\text{V}\pm 5\%$
- Frequency short term stability:Warm up/10sec
- Phase noise: $-100\text{dBc}/10\text{Hz}, -150\text{dBc}/1\text{KHz}$, at 10MHz
- Phase Jitter: ≤ 0.1 psec RMS(10Hz to 10MHz)
- Excellent aging characteristics: ± 500 ppb/Y/30days
- Power consumption:3mA(OSC),50mA(Heater)/3.3V
- Operating temperature : $-40\sim+85^{\circ}\text{C}$

Applications

- Mobilephone Base station
- Measuring instrument
- Exchanger
- High-end router

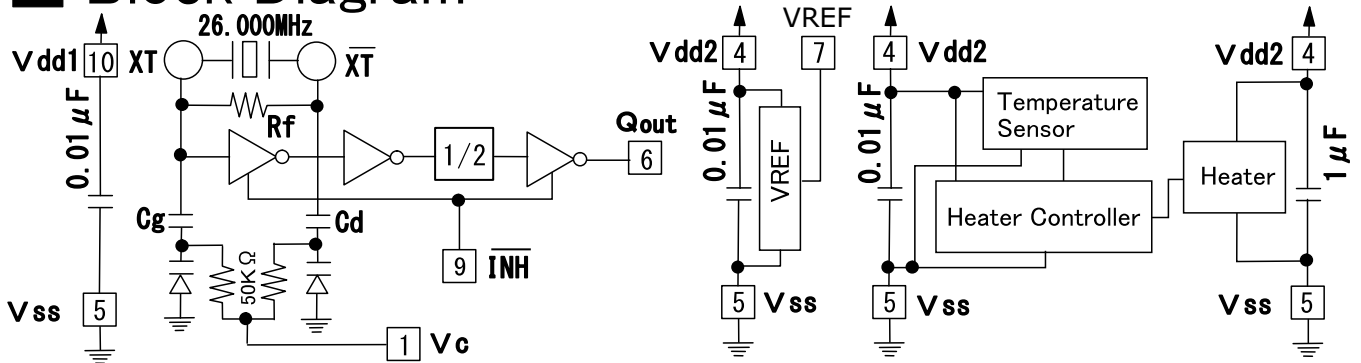
Product Number: AS026000MA

AS	02600	O:Function Series	M:Package	A:Version
Compy Code	Frequency 26.000MHz (6~160MHz)	O:SMD VC-TCOCXO	10Lead SMD:7×5 ×1.85mm	A: $-40\sim+85^{\circ}\text{C}$ ± 50 ppb,3.3V (0.20W)

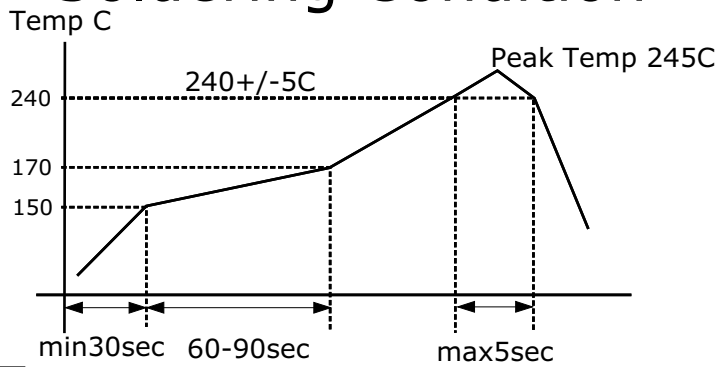
Specifications

ITEMS	TYPE	AS026000MA
Output Frequency:		26.000000MHz
Frequency Stability		± 50 ppb: -40 to $+85^{\circ}\text{C}/\text{Vdd}=3.3\text{V}\pm 5\%$
Initial frequency tolerance		± 500 ppb: $\text{Vc}=1.65\text{V}/\text{shipment}$
Initial supply voltage tolerance		± 10 ppb: $\text{Vdd}=3.3\text{V}\pm 5\%$
Initial load change tolerance		± 10 ppb: $\text{Vload}\pm 5\%$
Initial aging tolerance/day		± 2 ppb: after 30 days of operation
Initial aging tolerance/year		± 1 ppm: after 30 days of operation
Warm-up time		1min.to ± 100 ppb/final frequency/1 hour after/ 25°C
Phase Noise		Typ: $-100\text{dBc}/10\text{Hz}, -120\text{dBc}/100\text{Hz}, -150\text{dBc}/1\text{KHz}$ at 10MHz
PhaseJitter		≤ 0.1 psec RMS(1KHz to 20MHz)
Operating Temperature Range		-40 to $+85^{\circ}\text{C}$
Storage Temperature Range		-50 to $+100^{\circ}\text{C}$
Power SupplyVoltage/Oscillation		$3.3\text{V}\pm 5\%$
Power SupplyVoltage/Oven heater		$3.3\text{V}\pm 5\%$
Power Consumption/Oscillation(No load)		Typ:3.0mA/3.3V,Max:5.0mA/3.3V
Power Consumption/Oven Heater		Typ:45mA/3.3V,Max:60mA/3.3V(Heater: 90°C)
Input Level		Min: $\text{VIH}:+0.9\text{Vdd}$, Max: $\text{VIL}:+0.1\text{Vdd}$
Output Level/CMOS		Min: $\text{VOH}:+0.9\text{Vdd}$, Max: $\text{VOL}:+0.1\text{Vdd}$
Output Load		15pF
Output Rise/Fall Time		5nsec max(0.3 to 3.0V)/5nsec max(3.0 to 0.3V)
Assembly Temperature Range		Peak Temperature $240\text{C}\pm 5\text{C}$ for 5 sec max.Maximum Temperature 245C

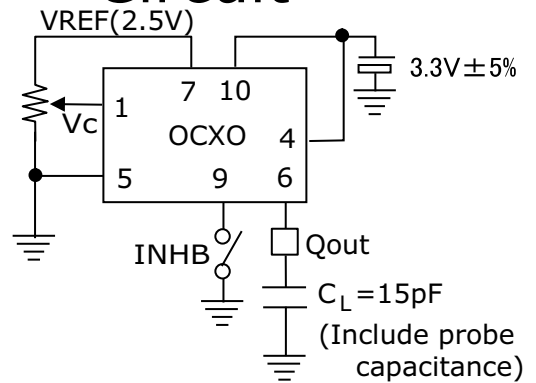
Block Diagram



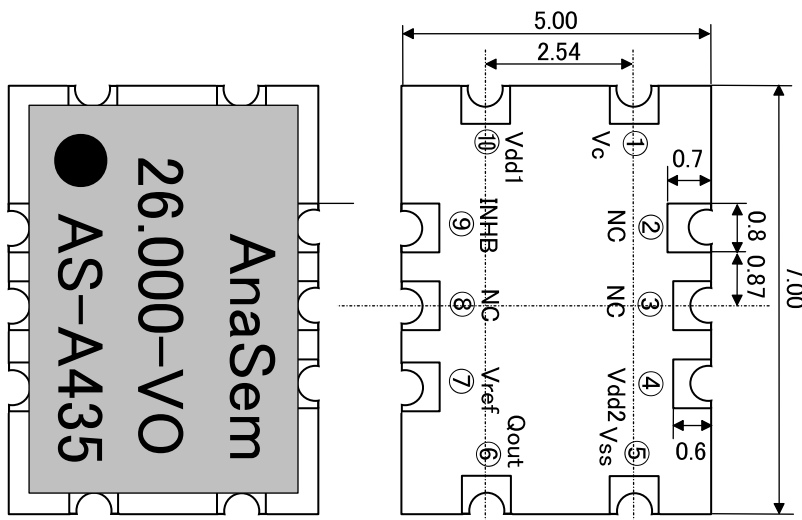
Recomended Reflow Soldering Condition



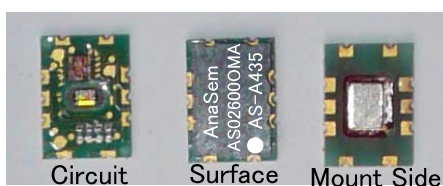
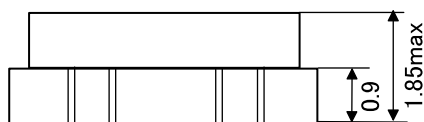
Measurement Circuit



Dimintions



(Units:mm)



Pin Connections

1	Vc
2	NC
3	NC
4	Vdd2(Heater Vdd)
5	Vss
6	Qout
7	Vref
8	NC
9	INHB
10	Vdd1(OSC Vdd)

/INHIBIT	
"L"Level	Open or "H"Level
High Impedance	Enable:Output

AnaSemHD. inC

6-18-12 Maehara Higashi Funabashi Chiba Japan
 TEL:81-47-476-2768 FAX:81-476-2758
 Home Page:<http://www.anasemholdings.com>
 e-mail:anasemholdings@gmail.com