



# Crystal Oscillators

VC-OCXO-7050/16PIN SMD/±1ppm/-40~+85°C

148.351648MHz/3.3V/AS14835VOA

## Description

AS14835VOA is LCMOS-Output Oven Controlled Crystal Oscillator(LVCMOS-OCXO) of the 16pin-SMD 7×5mm package. LVCMOS-OCXO Series can be output to 10~250MHz by Operating Voltage:3.3V (OSC) and 3.3V (Oven Heater:0.33w)in the heater power supply. As for the frequency stability level, ±1~±5ppm is -40~+85°C possible.

## Feature

- 7×5×1.85mm SMD 16pin PKG
- Frequency stability:±1ppm/-40~+85°C/3.3V±5%
- Frequency short term stability:Warm up/30sec
- Phase noise:-70dBc/10Hz,-150dBc/10Hz, at 10MHz
- Phase Jitter:≤1psec RMS(10Hz to 10MHz)
- Power consumption:30mA(150MHz),50mA(Heater)/3.3V
- Operating temperature : -40~+85°C

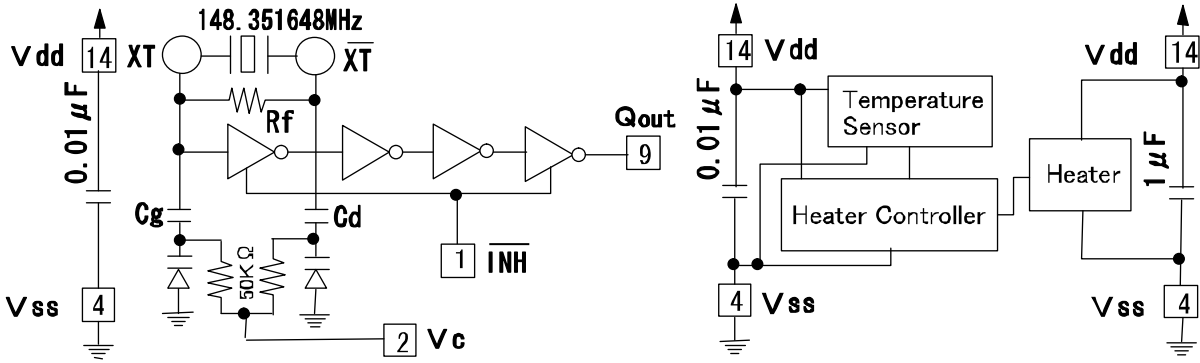
## Product Number: AS14835VOA

AS	14835	VO:Function Series	H:Package	A:Version
Compny Code	Frequency 148.351648MHz (10~250MHz)	VO:LVCMOS VC-OCXO	16Lead SMD:7×5 ×1.85mm	B:-40~85°C ±1ppm,3.3V (typ:0.33W)

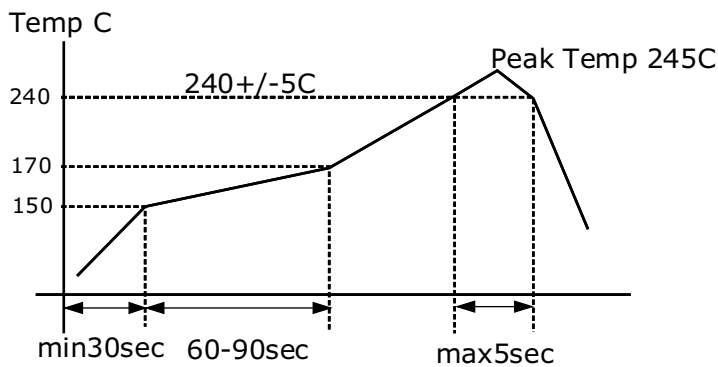
## Specifications

ITEMS	TYPE	AS14835VOA
Output Frequency:		148.351648MHz
Frequency Stability		±1ppm:-40 to +85°C/V <sub>DD</sub> =3.3V+/-5%
Output Wave Form		LVCMOS
Frequency Stability		+/-1ppm min:-40 to +85°C,3.3V+/-5%
Phase Noise		Typ:-70dBc/10Hz,-110dBc/100Hz,-155dBc/10KHz at,10MHz
Phase Jitter		≤1psec RMS(10Hz to 10MHz)
Operating Temperature Range		-40 to +85°C
Storage Temperature Range		-50 to +90°C
Power Supply Voltage/Oscillation		3.3V±5%
Power Supply Voltage/Oven heater		3.3V±5%
Power Consumption/Oscillation(No load)		Typ:30mA/3.3V,Max:60mA/3.3V
Power Consumption/Oven Heater		Typ:80mA/3.3V,Max:100mA/3.3V
Output Disable Time		max 100nsec
Output Enable Time		max 5msec
Output Symmetry		45% to 55%(at 1/2V <sub>DD</sub> )/3.3V/25°C
Input Level		Min:V <sub>IH</sub> :+0.9V <sub>DD</sub> Max:V <sub>IL</sub> :+0.1V <sub>DD</sub>
Output Level/CMOS		Min:V <sub>OH</sub> :+0.9V <sub>DD</sub> Max:V <sub>OL</sub> :+0.1V <sub>DD</sub>
Output Load		15pF
Output Rise/Fall Time		0.8nsec max(0.3 to 3.0V)/1.0nsec max(3.0 to 0.3V)
Assembly Temperature Range		Peak Temperature 240C +/- 5C for 5 sec max.Maximum Temperature 245°C

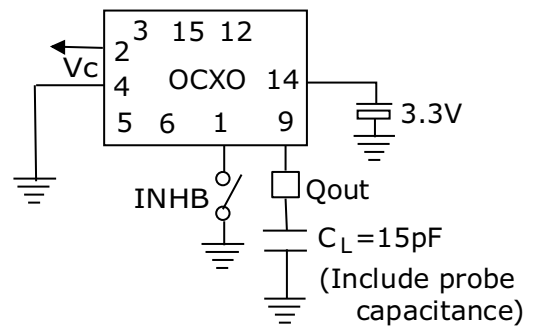
## Block Diagram



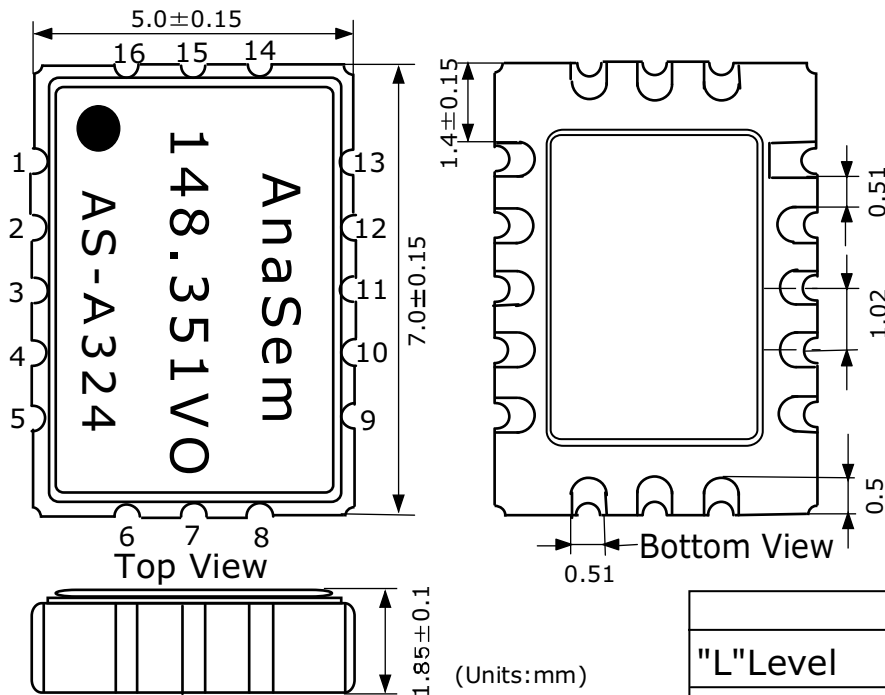
## Recommended Reflow Soldering Condition



## Measurement Circuit



## Dimensions



## Pin Connections

1	INH B
2	Vc
3	NC
4	Vss
5	NC
6	NC
7	NC
8	NC
9	Qout
10	NC
11	NC
12	NC
13	NC
14	Vdd
15	NC
16	NC

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



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