

5.0Vdc SINE WAVE FULL-SIZE DIP VOLTAGE CONTROLLED CRYSTAL OSCILLATOR



20.8 x 13.2 x 6.8mm

ACVX1240

Pb RoHS/RoHS II Compliant

FEATURES:

- Sine wave output into 50Ω
- Reduced EMI
- Available extended temperature range -40°C ~ +85°C
- Available wide pulling option ±150ppm

APPLICATIONS:

- Phase locked loops (PLL) circuit
- Synthesizers
- EMI reductions meet FCC requirements

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	8	-----	200	MHz	
Operating Temperature:	0	-----	+70	°C	See options
Storage Temperature:	-55	-----	+125	°C	
Overall Frequency Stability:	-50	-----	+50	ppm	See options
Supply Voltage (Vdd):	+4.75	5.00	+5.25	V	
Supply Current (Idd):	-----	15	20	mA	8 – 20MHz
	-----	20	30	mA	21 – 40MHz
	-----	30	40	mA	41 – 80MHz
	-----	40	50	mA	81 – 100MHz
	-----	50	60	mA	101 – 150MHz
	-----	60	70	mA	151 – 200MHz
Start-up time:	-----	5	10.0	ms	
Output Load:	-----	-----	50	Ω	
Output Level	0	-----	-----	dBm	
Control Voltage (Vc):	0.5	-----	4.5	Vdc	
Frequency Pull Range:	±100	-----	-----	ppm	See options
Linearity:	-10	-----	+10	%	
RMS Jitter:	-----	0.2	0.5	ps	
Harmonics:	-----	-----	-30	dBc	
Spurious Level:	-----	-----	-60	dBc	
Aging (first year):	-3	-----	+3	ppm	

OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

ACVX1240 - MHz - - - -

Frequency in MHz
Please specify the frequency in MHz.
e.g. 14.31818MHz

Operating Temp.
I: 0°C ~ +50°C
D: -10°C ~ +60°C
E: -20°C ~ +70°C
F: -30°C ~ +70°C
N: -30°C ~ +85°C
L: -40°C ~ +85°C

Freq. Stability
J*: ±20ppm
R: ±25ppm
K: ±30ppm
H: ±35ppm

* Temp. option I,D,E and 0°C ~ +70°C only

Pulling
Blank: ±100ppm
N05: ±50ppm
N07: ±75ppm
N15: ±150ppm
N20: ±200ppm
N25: ±250ppm
N30: ±300ppm

Trimmed Lead
G: Gull Wing
Q45: 0.45 (11.43)
Q40: 0.40 (10.16)
Q35: 0.35 (8.89)
Q30: 0.30 (7.62)
Q25: 0.25 (6.35)
Q20: 0.20 (5.08)
Q15: 0.15 (3.81)
Q10: 0.10 (2.54)

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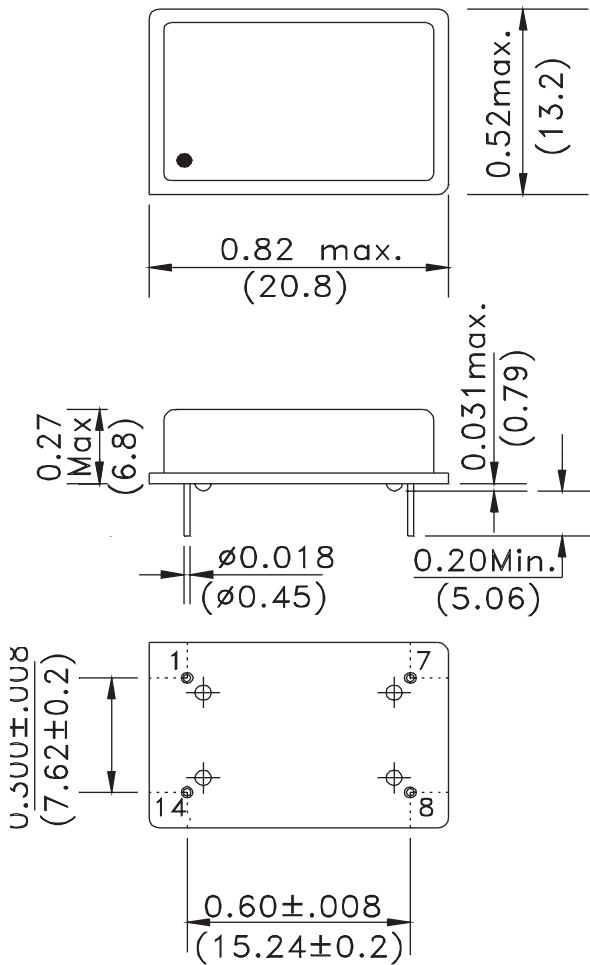
ACVX1240

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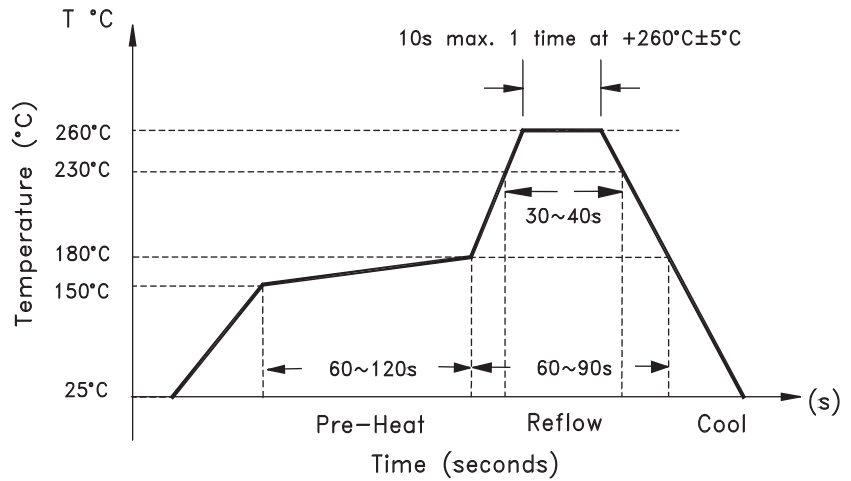


20.8 x 13.2 x 6.8mm

OUTLINE DRAWING:



REFLOW PROFILE:



PIN	FUNCTION
1	Vc
7	GND/Case
8	Output
14	VDD

Note: It is recommended to use an approximately 0.01uF bypass capacitor between PIN 7 and 14.

Dimensions: Inches (mm)

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