


RoHS Compliant Pb - Lead Free	Ltr	Revisions	Date	Appr

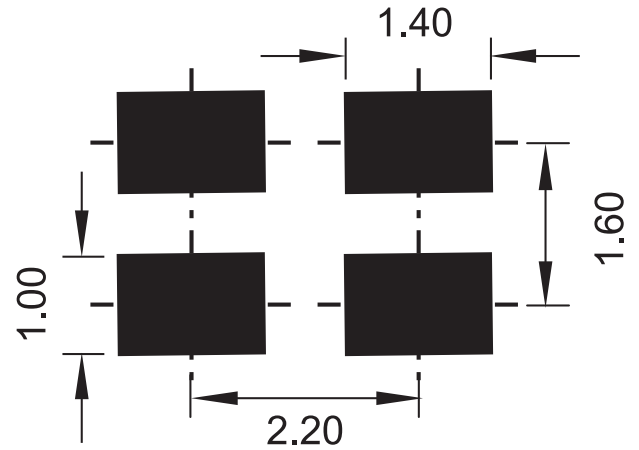
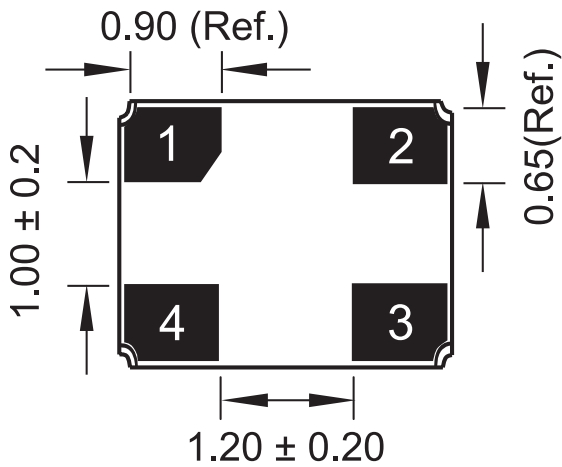
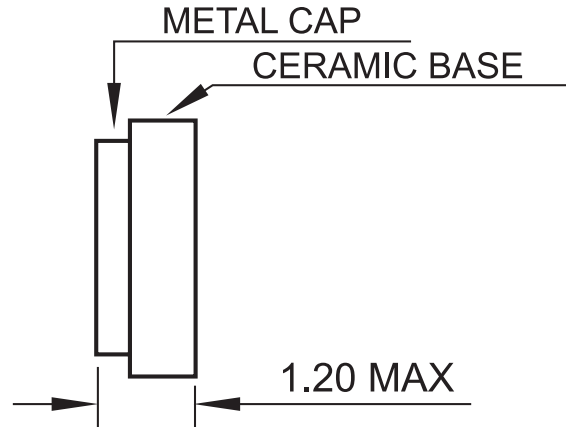
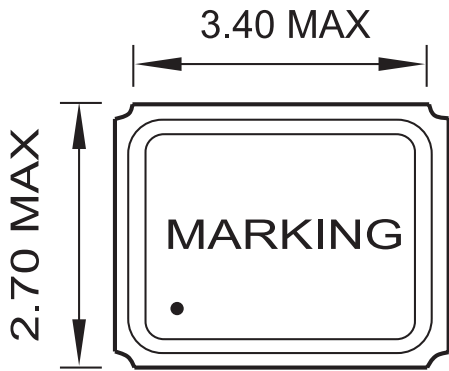
Electrical Specifications:

Frequency Range		1.000 - 54.000			MHz
Temperature Stability		±10			PPM Max
Aging per Year		±2			
Operating Temperature Range		-40 to +85			°C
Storage Temperature Range		-55 to +125			
Supply Voltage		1.8 ± 5%	2.5 ± 5%	3.3 ± 5%	Vdd
Input Current	5.000 to 10.000 MHz	5	6	7	mA Max
	10.100 to 20.000 Mhz	6	8	7	
	20.100 to 32.000 Mhz	6	8	12	
	32.100 to 54.000 Mhz	10	15	15	
Output Voltage	Logic High (Voh)	90% (80% at 1.8)			Vdd Min
	Logic Low (Vol)	10% (20% at 1.8)			Vdd Max
Output Symmetry	Standard	40 to 60			%
	Tight	45 to 55			
Output Level		CMOS			-
Output Load		15			pF Max
Rise and Fall Time	5.000 to 10.000 MHz	7	5	5	ns Max
	10.100 to 20.000 Mhz	7	5	5	
	20.100 to 32.000 Mhz	6	5	5	
	32.100 to 54.000 Mhz	6	5	5	
Phase Jitter RMS(Fj:12K~20Mhz)		0.5			ps
Enable-Disable Function		Tri-State			-
Output Disable Time		300	150		ns Max
Output Enable Time		10	5		ms Max
Start Up Time		5 (10 at 1.8 Vdd)			ms Max

Temperature stability is Inclusive of all conditions:
 Calibration Tolerance at +25°C, frequency stability over the operating temperature range, supply voltage, supply voltage change, output load changes, shock, vibration, and 1st year aging at +25°C.

 <p>11-3 Chien-Kuo Rd T.E.P.Z. 4027 Taiwan, ROC</p> <p>All dimensions are millimeters.</p> <p>CAD: TCR</p> <p>Review: EG</p> <p>Appr: JL</p> <p>Page: 1/4 Date: Dec 13, 2017</p>	Specification Title: High Precision Clock Oscillator Miniature - Low Profile 3.2 x 2.5 millimeter Surface Mount General Product Specification	
	Part Number: HP3 Series	

Mechanical Outline:



#1 : E/D #2 : GND
#4 : VDC #3 : OUTPUT

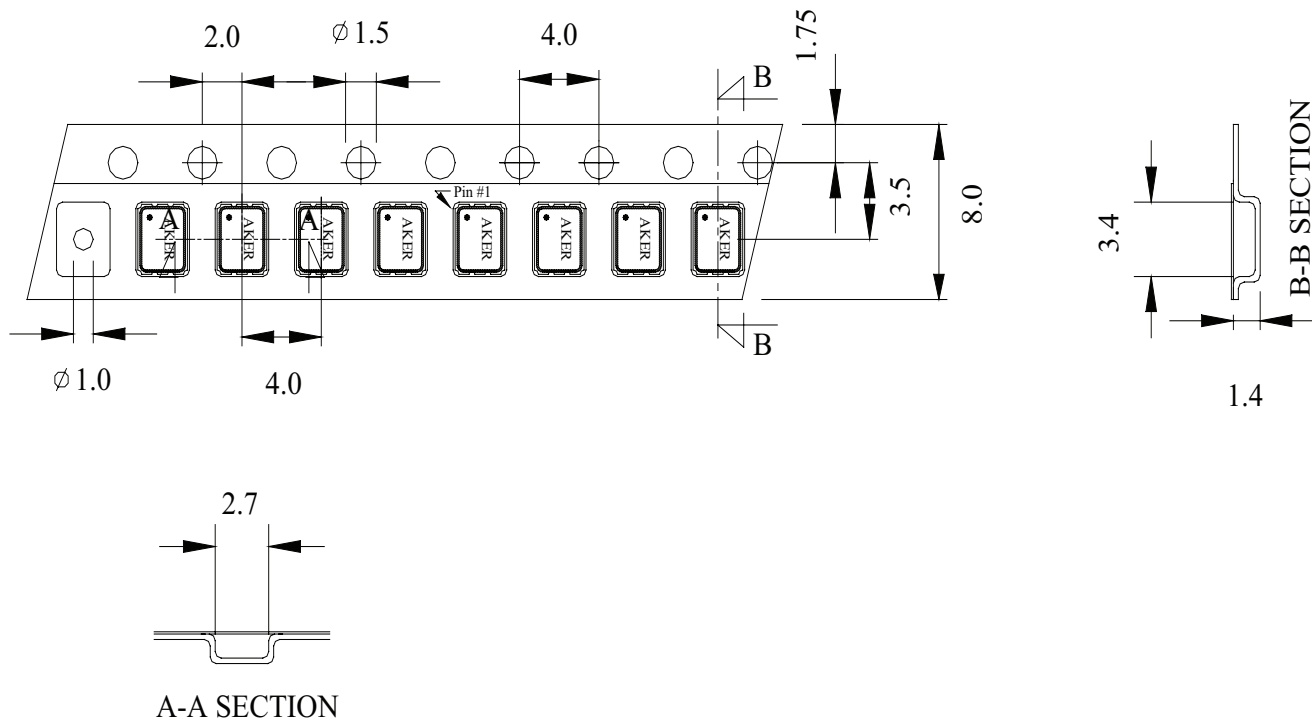
Bottom

Recommended Land Pattern

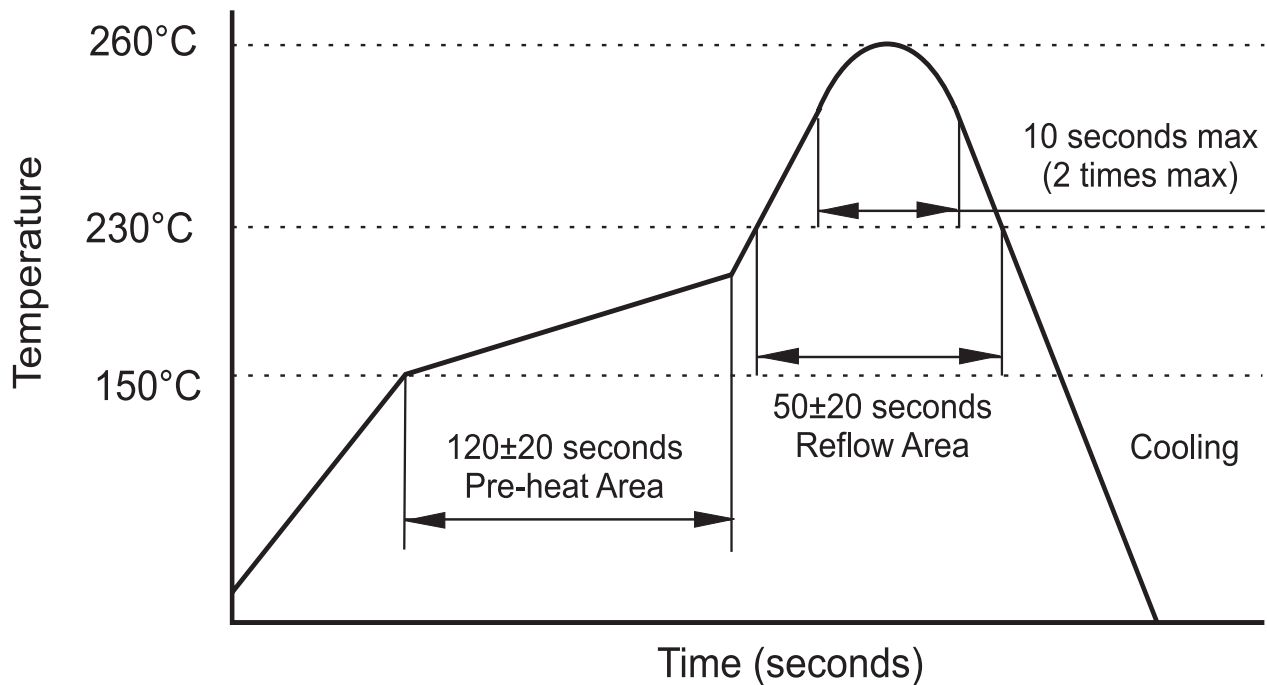
Pin1	Pin 3
INH	Output
High or Open	Operating
Low	High Impedance

**Package is Seam Sealed Ceramic-Metal.
Dimensions are millimeters.**

Carrier Tape Dimensions:



Solder Reflow Characteristics:



How to build a Part Number:

Series	HP	Parameter
Package	3	3.2 x 2.5 mm
Supply Voltage	33	+3.3 Vdd ± 5%
	25	+2.5 Vdd ± 5%
	18	+1.8 Vdd ± 5%
Temperature Stability	010	±10 PPM
Duty Cycle	See Notes	40 / 60 %
	T	45 / 55 %
Frequency	1.000 to 54.000	MHz
Temperature Range	See Notes	-40 to +85 °C
Packaging	M	250pcs Reel
	R	1000pcs Reel
	R3	3000pcs Reel

Part Number Example:

HP333010-26.000-R

HP3: 3.2 x 2.5 mm SMD Package

33: +3.3 ± 10% Vdd Supply Voltage

010: ±10 PPM Temperature Stability

26.000 MHz Nominal Frequency

-40 to + 85° C Temperature Range

R: Tape and Reel Packaging - 1000pcs Reel

Notes:

1- Standard Duty Cycle does not need to be included in Part Number description.

2- Product is shipped in Tape and Reel configuration.

3- Quantities less than 250pcs are shipped in tape.

4- Specification subject to change without notice.