

**SURFACE MOUNT VOLTAGE-CONTROLLED CRYSTAL OSCILLATORS**  
 (Rohs Compliant / Lead Free)  
**VCXO 14x8.9mm (AP-VCXO14 Series)**



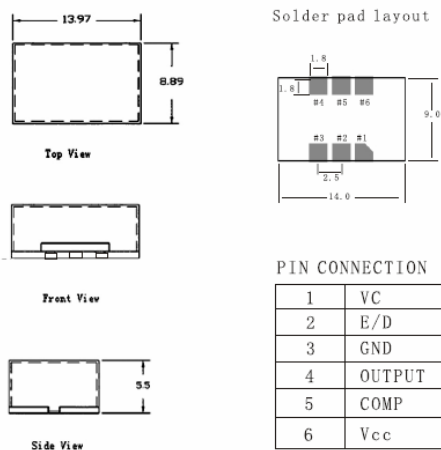
**- SPECIFICATIONS**

<b>FREQUENCY RANGE</b>		70MHz TO 800MHz	
<b>FREQUENCY STABILITY</b>		±21PPM MAX.	
<b>TEMPERATURE RANGE</b>	<b>OPERATING</b>	-20°C TO +70°C STANDARD -40°C TO +85°C EXTENDED	
	<b>STORAGE</b>	-55°C TO +90°C	
<b>INPUT</b>	<b>VOLTAGE</b>	+3.3VDC ±5%	
<b>CURRENT CONSUMPTION</b>		135mA Max. @Vcc=+3.3V/Vc=+1.65V, Ta=+25 °C, 50Ω to Vcc-2.0VDC load	
<b>OUTPUT</b>	<b>LEVEL</b>	PECL	
	<b>DUTY</b>	NORMAL: 40% TO 60% TIGHT: 45% TO 55%	
	<b>VOLTAGE</b>	"0" Level	V <sub>o1</sub> ≤ 1.68V
		"1" Level	V <sub>oh</sub> ≥ 2.275V
	<b>RISE/FALL TIME</b>	1nS Max. @20%~80% Vout Max.	
<b>START UP TIME</b>	10mS Max.		
<b>PHASE JITTER RMS</b>		1.0ps (rms) Max @F <sub>j</sub> =12KHz to 20MHz BW	
<b>INPUT IMPEDANCE</b>		100kΩ Min.	
<b>PULL CHARACTERISTIC CONTROL</b>	<b>PULLABILITY</b>	VC=0.3V to 3.0V @0.3V steps 50ppm/V Min, 100ppm/V Max, V <sub>fo</sub> =1.65±0.25VDC	
	<b>CONTROL VOLTAGE</b>	0V~3.3V (Vc=1.65V)	
<b>ENABLE/DISABLE</b>	Enabled: Pin 2=Low, Vcc-1.62 Max.		



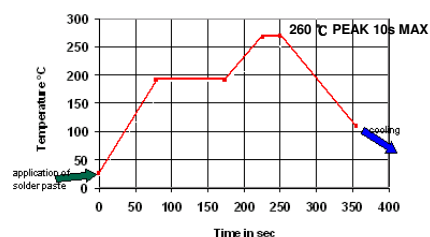
\* V<sub>fo</sub> is the control voltage at which the output frequency is equal to the nominal frequency F<sub>o</sub> @25°C ± 1°C

**- OUTLINE DIMENSIONS**



Unit: mm

**- SOLDER REFLOW PROFILE**



<b>ORDERING CODE SYSTEM (VERSION 1.1 UPDATED MAY 2008)</b>				<b>EXAMPLE:</b>
<b>SERIES</b>	<b>STABILITY</b>	<b>FREQUENCY</b>	<b>INPUT VOLTAGE</b>	AP-VCXO14D-70-3.3
AP-VCXO14	D ±21PPM	IN MHZ	3.3	

NON STANDARD FREQUENCIES AND SPECIFICATIONS ARE AVAILABLE ON REQUEST

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Specifications are subject to change without notice