

**DIP14 TYPE TEMPERATURE-CONTROLLED CRYSTAL OSCILLATORS**  
 (Rohs Compliant / Lead Free)  
**TCXO 20.32x12.7mm (AP-TCXO20 Series)**

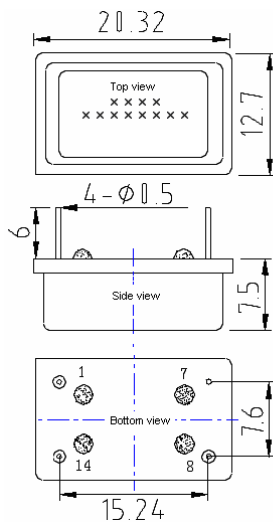


**- SPECIFICATIONS**

<b>FREQUENCY RANGE</b>	0.625MHz TO 320MHz			
<b>FREQUENCY STABILITY</b>	±0.5PPM	±1, ±2PPM	±0.5, ±1PPM	±0.5PPM
<b>OPERATING TEMPERATURE</b>	-45°C ~ +85°C	-40°C ~ +85°C	-20°C ~ +70°C	0°C ~ +60°C
<b>FREQUENCY STABILITY VS CALIBRATION</b>	±1PPM MAX.			
<b>FREQUENCY STABILITY VS AGING</b>	±1PPM/YEAR MAX, ±0.5PPM/YEAR MAX.			
<b>STORAGE TEMPERATURE RANGE</b>	-50°C TO +90°C			
<b>OUTPUT WAVEFORM</b>	TTL / HCMOS	SINEWAVE	CLIPPED SINEWAVE	
<b>LOAD</b>	4 TTL or 25pF	50 Ω	10K Ω / 10pF	
<b>DUTY</b>	40% ~ 60% TYPICAL			
<b>RISE AND FALL TIME</b>	10nS MAX.			
<b>CURRENT</b>	7mA MAX.(F), 7mA MAX.(O), 20mA MAX.(P11)			
<b>FREQUENCY STABILITY VS LOAD VARIATION</b>	±0.1PPM MAX. FOR ±10% VARIATION FROM STANDRAD LOAD			
<b>SUPPLY VOLTAGE (Vcc)</b>	+12VDC±5%, +5VDC±5%, +3.3VDC±5% (OPTIONAL)			
<b>FREQUENCY STABILITY VS SUPPLY VARIATION</b>	±0.1PPM MAX. FOR ±5% VARIATION FROM NOMINAL SUPPLY			
<b>PHASE NOISE</b>	1KHz: -130dBc / Hz (NO PLL), -120dBc / Hz (PLL)			
<b>PULLING</b>	N: No frequency adjustment TCXO D: frequency adjustment VC-TCXO ±8ppm (TYPICAL)			



**- OUTLINE DIMENSIONS**

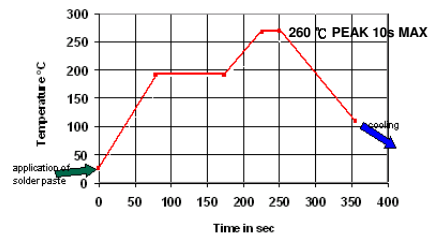


Pin Connections

1	Vc/Nc
7	GND
8	Output
14	Vcc

Unit: mm

**- SOLDER REFLOW PROFILE**



ORDERING CODE SYSTEM (VERSION 1.2 UPDATED MAY 2008)					EXAMPLE:
SERIES	STABILITY	FREQUENCY	INPUT VOLTAGE	OPTIONAL / BLANK	AP-TCXO201-40-3.3-D
AP-TCXO20	05: ±0.5PPM 2: ±2PPM 1: ±1PPM	IN MHZ	3.3	PULLING N: No frequency adjustment TCXO D: frequency adjustment	

NON STANDARD FREQUENCIES AND SPECIFICATIONS ARE AVAILABLE ON REQUEST

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*Specifications are subject to change without notice*