

**LEADED TYPE OVEN CONTROLLED CRYSTAL OSCILLATORS**  
 (Rohs Compliant / Lead Free)  
**OCXO 36x27mm (AP-OCXO36 Series)**

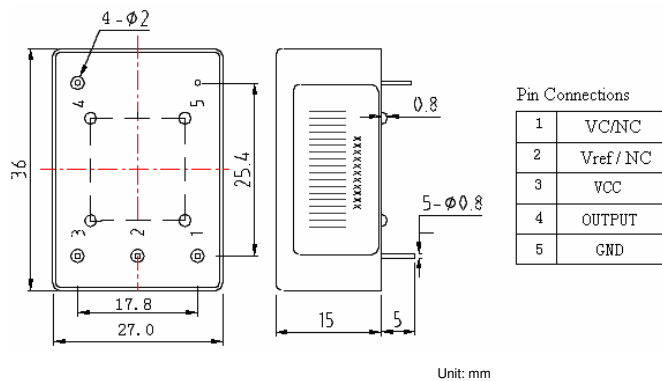


**- SPECIFICATIONS**

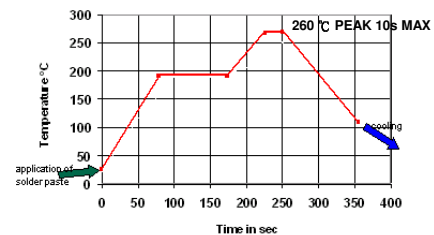
	AT CUT CRYSTAL			SC CUT CRYSTAL		
<b>FREQUENCY RANGE</b>	0.625MHz TO 160MHz					
<b>FREQUENCY STABILITY</b>	$\pm 2.5 \times 10^{-7}$	$\pm 5 \times 10^{-8}$	$\pm 3 \times 10^{-8}$	$\pm 1 \times 10^{-8}$	$\pm 5 \times 10^{-9}$	$\pm 5 \times 10^{-9}$
<b>OPERATING TEMPERATURE</b>	-40~+80°C	-30~+70°C	0~+60°C	-40~+80°C	-30~+70°C	0~+60°C
<b>STORAGE TEMPERATURE RANGE</b>	1E-10 / sec			1E-11 / sec		
<b>OUTPUT WAVEFORM</b>	HCMOS / TTL / Sine 0 to +7dBm (Low voltage CMOS Available)					
<b>RISE AND FALL TIME</b>	6nS MAX. (HCMOS, 10%~90%V out, 90%~10%V out)					
<b>FREQUENCY STABILITY VS LOAD CHANGES</b>	$\pm 0.01$ ppm Max for $\pm 5\%$ change			$\pm 0.002$ ppm Max for $\pm 5\%$ change		
<b>FREQUENCY STABILITY VS SUPPLY CHANGES</b>	$\pm 0.01$ ppm Max for $\pm 5\%$ change			$\pm 0.002$ ppm Max for $\pm 5\%$ change		
<b>FREQUENCY STABILITY VS AGING</b>	$\pm 0.5$ PPM/YEAR MAX, $\pm 0.3$ PPM/YEAR MAX.			$\pm 0.1$ PPM/YEAR MAX, $\pm 0.05$ PPM, $\pm 0.03$ PPM/YEAR MAX.		
<b>SUPPLY VOLTAGE, NOM.</b>	12V, 5V, 3.3V (OPTIONAL)					
<b>POWER DISSIPATION STEADY STATE</b>	1.5W MAX.					
<b>HEAT UP POWER</b>	3.6W MAX.					
<b>HEAT UP TIME</b>	3MIN. MAX.					
<b>DUTY CYCLE</b>	40% ~ 60% (HCMOS)					
<b>PHASE NOISE</b>	<b>OFFSET</b>	<b>PHASE NOISE</b>	<b>OFFSET</b>	<b>PHASE NOISE</b>	<b>OFFSET</b>	<b>PHASE NOISE</b>
	10Hz	-90dBc/Hz	10Hz	-120dBc/Hz	10Hz	-120dBc/Hz
	100Hz	-125dBc/Hz	100Hz	-140dBc/Hz	100Hz	-140dBc/Hz
	1000Hz	-135dBc/Hz	1000Hz	-150dBc/Hz	1000Hz	-150dBc/Hz
	10000Hz	-150dBc/Hz	10000Hz	-155dBc/Hz	10000Hz	-155dBc/Hz
<b>PULLING</b>	N: No frequency adjustment D: $\pm 4$ ppm (TYPICAL)			D: Frequency adjustment D: $\pm 0.5$ ppm (TYPICAL)		



**- OUTLINE DIMENSIONS**



**- SOLDER REFLOW PROFILE**



ORDERING CODE SYSTEM (VERSION 1.1 UPDATED MAY 2008)				EXAMPLE:
SERIES	STABILITY	FREQUENCY	INPUT VOLTAGE	AP-OCXO361-160-3.3
AP-OCXO36	1: $\pm 1 \times 10^{-8}$ 25: $\pm 2.5 \times 10^{-7}$ 3: $\pm 3 \times 10^{-8}$ 5: $\pm 5 \times 10^{-9}, 10^{-9}$	IN MHZ	3.3	

NON STANDARD FREQUENCIES AND SPECIFICATIONS ARE AVAILABLE ON REQUEST

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Specifications are subject to change without notice