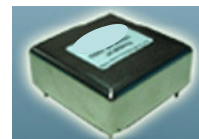


LEADED TYPE OVEN CONTROLLED CRYSTAL OSCILLATORS
 (Rohs Compliant / Lead Free)
OCXO 50.8x50.8mm (AP-OCXO50 Series)

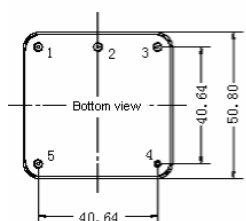
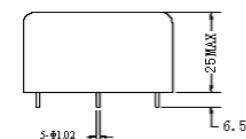


- SPECIFICATIONS

SC CUT CRYSTAL		
FREQUENCY RANGE	0.625MHz TO 160MHz	
FREQUENCY STABILITY	$\pm 5 \times 10^{-10}$ $\pm 3 \times 10^{-10}$ $\pm 1 \times 10^{-9}, \pm 2 \times 10^{-10}, \pm 5 \times 10^{-10}$	
OPERATING TEMPERATURE	-40°C TO +80°C -20°C TO +70°C 0°C TO +70°C	
STORAGE TEMPERATURE RANGE	5E-12 / sec	
OUTPUT WAVEFORM	HCMOS / TTL / Sine 0 to +7dBm (Low voltage CMOS Available)	
RISE AND FALL TIME	6nS MAX. (HCMOS, 10%~90%V out, 90%~10%V out)	
FREQUENCY STABILITY VS LOAD CHANGES	± 0.2 ppm Max for $\pm 5\%$ change	
FREQUENCY STABILITY VS SUPPLY CHANGES	± 0.2 ppm Max for $\pm 5\%$ change	
FREQUENCY STABILITY VS AGING	± 0.05 PPM/YEAR MAX, ± 0.03 PPM/YEAR MAX. ± 0.01 PPM/YEAR MAX	
SUPPLY VOLTAGE, NOM.	15V, 12V, 5V (OPTIONAL)	
POWER DISSIPATION STEADY STATE	2.5W MAX.	
HEAT UP POWER	10W MAX.	
HEAT UP TIME	10MIN. MAX.	
DUTY CYCLE	40% ~ 60% (HCMOS)	
PHASE NOISE	OFFSET	
	10Hz	-120dBc/Hz
	100Hz	-140dBc/Hz
	1000Hz	-150dBc/Hz
	10000Hz	-155dBc/Hz
PULLING	N: No frequency adjustment D: Frequency adjustment ± 0.5 ppm (TYPICAL)	



- OUTLINE DIMENSIONS

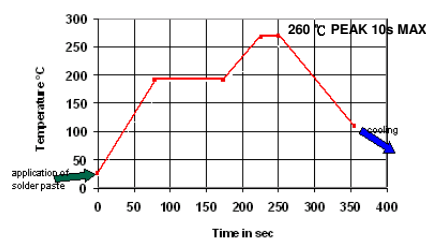


Pin Connections

1	VCC/NC
2	Vref / NC
3	OUTPUT
4	GND
5	VCC

Unit: mm

- SOLDER REFLOW PROFILE



ORDERING CODE SYSTEM (VERSION 1.1 UPDATED MAY 2008)				EXAMPLE:
SERIES	STABILITY	FREQUENCY	INPUT VOLTAGE	AP-OCXO501-160-5
AP-OCXO50	1: $\pm 1 \times 10^{-9}$ 2: $\pm 2 \times 10^{-10}$ 3: $\pm 3 \times 10^{-10}$ 5: $\pm 5 \times 10^{-10}$	IN MHZ	5	

NON STANDARD FREQUENCIES AND SPECIFICATIONS ARE AVAILABLE ON REQUEST

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Specifications are subject to change without notice