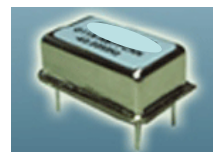


LEADED TYPE OVEN CONTROLLED CRYSTAL OSCILLATORS
 (Rohs Compliant / Lead Free)
OEXO 20.32x12.7mm (AP-OEXO20A Series)

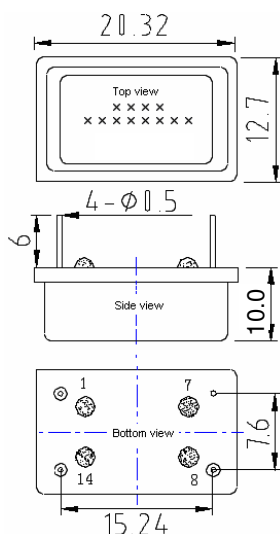


- SPECIFICATIONS

FREQUENCY RANGE		1.25MHz TO 40MHz			
FREQUENCY STABILITY		$\pm 3 \times 10^{-7}$	$\pm 2.5 \times 10^{-7}, \pm 5 \times 10^{-8}$	$\pm 1 \times 10^{-7}$	
OPERATING TEMPERATURE		-40°C TO +80°C	-30°C TO +70°C	0°C TO +60°C	
STORAGE TEMPERATURE RANGE		5E-10 / 1 sec			
OUTPUT WAVEFORM		HCMOS / TTL Standard (Low voltage CMOS Available)			
RISE AND FALL TIME		6nS MAX. (10%~90%V out, 90%~10%V out)			
FREQUENCY STABILITY VS LOAD CHANGES		± 0.01 ppm Max for $\pm 5\%$ change			
FREQUENCY STABILITY VS SUPPLY CHANGES		± 0.015 ppm Max for $\pm 5\%$ change			
FREQUENCY STABILITY VS AGING		± 3.6 PPM/10 YEAR MAX, ± 0.005 PPM/DAY MAX.			
SUPPLY VOLTAGE, NOM.		12V, 5V, 3.3V (OPTIONAL)			
POWER DISSIPATION STEADY STATE		1.5W MAX.			
HEAT UP POWER		3.6W MAX.			
HEAT UP TIME		3MIN. MAX.			
DUTY CYCLE		40% ~ 60%			
PHASE NOISE	OFFSET	10Hz	100Hz	1000Hz	10000Hz
	PHASE NOISE	-90dBc/Hz	-125dBc/Hz	-135dBc/Hz	-140dBc/Hz
PULLING		N: No frequency adjustment D: frequency adjustment ± 4 ppm (TYPICAL)			



- OUTLINE DIMENSIONS

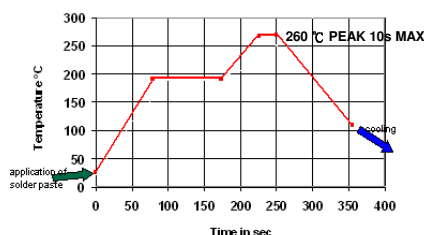


Pin Connections

1	Vc/Nc
7	GND
8	Output
14	Vcc

Unit: mm

- SOLDER REFLOW PROFILE



ORDERING CODE SYSTEM (VERSION 1.1 UPDATED MAY 2008)				EXAMPLE:
SERIES	STABILITY	FREQUENCY	INPUT VOLTAGE	AP-OEXO20A1-40-5
AP-OEXO20A	1: $\pm 1 \times 10^{-7}$ 25: $\pm 2.5 \times 10^{-7}$ 3: $\pm 3 \times 10^{-7}$ 5: $\pm 5 \times 10^{-8}$	IN MHZ	5	

NON STANDARD FREQUENCIES AND SPECIFICATIONS ARE AVAILABLE ON REQUEST

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Specifications are subject to change without notice