

CLOCK OSCILLATORS TTL COMPATIBLE (Rohs Compliant / Lead Free)
Oscillators Half Size (APO-HTL Series) 5V



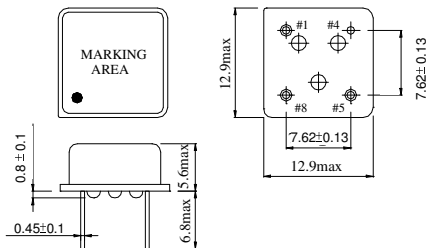
- SPECIFICATIONS

FREQUENCY RANGE		0.5MHz TO 23.999MHz	24MHz TO 69.999MHz	70MHz TO 150MHz
FREQUENCY STABILITY (ALL INCLUSIVE*)		±20PPM, ±25PPM, ±50PPM, ±100PPM		
TEMPERATURE RANGE	OPERATING	0°C TO +70°C STANDARD		
		-40°C TO +85°C EXTENDED		
	STORAGE	-55°C TO +125°C		
AGING (FIRST YEAR)		±5PPM		
INPUT	VOLTAGE	+5VDC ±10%		
	CURRENT (MAX.)	15mA	30mA	60mA
OUTPUT	LOAD TTL	1 ~ 10TTL		
	SYMMETRY	NORMAL: 40% TO 60%		
		TIGHT: 45% TO 55%		
	VOLTAGE	V_{OH}	2.4V min	
		V_{OL}	0.4V max	
RISE/FALL TIME	5nS Max (Tr: 0.4V~2.4V, Tf: 2.4V~0.4V)			
START-UP TIME		10mS max		

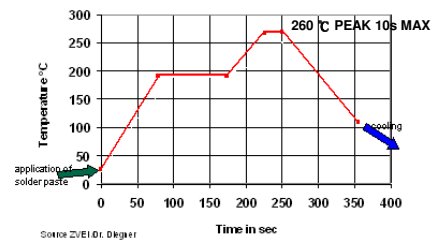


*Include: 25°C tolerance, operating temperature range, input voltage change, aging 1st year, load change, shock and vibration

- OUTLINE DIMENSIONS



- SOLDER REFLOW PROFILE



PIN	CONNECTION
#1	NC
#4	Ground
#5	Output
#8	VDD

Packaging : 40 pcs/tube

Unit: mm

ORDERING CODE SYSTEM (VERSION 1.1 UPDATED MAY 2008)						EXAMPLE:
SERIES	STABILITY	FREQUENCY	INPUT VOLTAGE	TEMPERATURE RANGE	OPTIONAL / BLANK	APO-HTLJ-25-5XT
APO-HTL	D: ±20PPM E: ±25PPM J: ±50PPM P: ±100PPM	IN MHZ	5	X: EXTENDED TEMPERATURE (-40 TO +85 °C)	T – TIGHT SYMMETRY OTHERS – SPECIAL BLANK - STANDARD	

NON STANDARD FREQUENCIES AND SPECIFICATIONS ARE AVAILABLE ON REQUEST

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Specifications are subject to change without notice