

CLOCK OSCILLATORS TTL / HCMOS COMPATIBLE
(Rohs Compliant / Lead Free)
Oscillators Full Size (APO-FTH Series) 3.3V

APX -Crystal

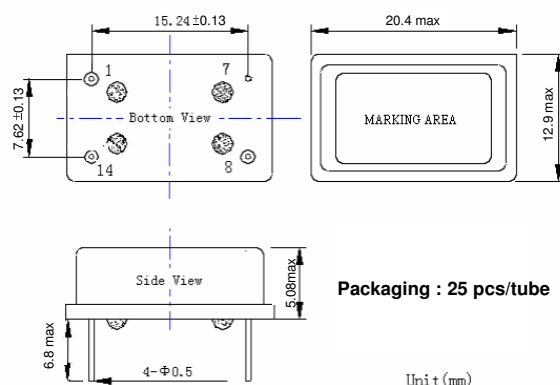
- SPECIFICATIONS

FREQUENCY RANGE		0.5MHz TO 23.999MHz	24MHz TO 49.999MHz	50MHz TO 69.999MHz	70MHz TO 150MHz
FREQUENCY STABILITY (ALL INCLUSIVE*)		±20PPM, ±25PPM, ±50PPM, ±100PPM			
TEMPERATURE RANGE	OPERATING	0℃ TO +70℃ STANDARD			
		-40℃ TO +85℃ EXTENDED			
	STORAGE	-55℃ TO +125℃			
AGING (FIRST YEAR)		±5PPM			
INPUT	VOLTAGE	+3.3VDC ±10%			
	CURRENT (MAX.)	15mA	20mA	30mA	45mA
OUTPUT	LOAD TTL	1 ~ 5TTL			
	LOAD HCMOS	~50M:30pF, ~150M:15pF			
	SYMMETRY	NORMAL: 40% TO 60%			
		TIGHT: 45% TO 55%			
	VOLTAGE	V _{OH}	90% V _{DD} min		
		V _{OL}	10% V _{DD} max		
RISE/FALL TIME		8nS Max (Tr: 10%V _{DD} ~90%V _{DD} , Tf: 90%V _{DD} ~10%V _{DD})			
START-UP TIME		10mS max			



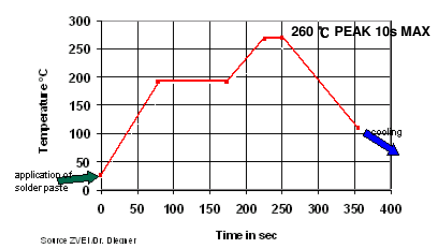
*Include: 25°C tolerance, operating temperature range, input voltage change, aging 1st year, load change, shock and vibration

- OUTLINE DIMENSIONS



PIN	CONNECTION
#1	NC
#7	Ground
#8	Output
#14	VDD

- SOLDER REFLOW PROFILE



ORDERING CODE SYSTEM (VERSION 1.1 UPDATED MAY 2008)						EXAMPLE:
SERIES	STABILITY	FREQUENCY	INPUT VOLTAGE	TEMPERATURE RANGE	OPTIONAL / BLANK	APO-FTHJ-25-3.3XT
APO-FTH	D: ±20PPM E: ±25PPM J: ±50PPM P: ±100PPM	IN MHZ	3.3	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