

CLOCK OSCILLATORS TTL / HCMOS COMPATIBLE
(Rohs Compliant / Lead Free)
Oscillators Full Size (APO-FTH Series) 5V



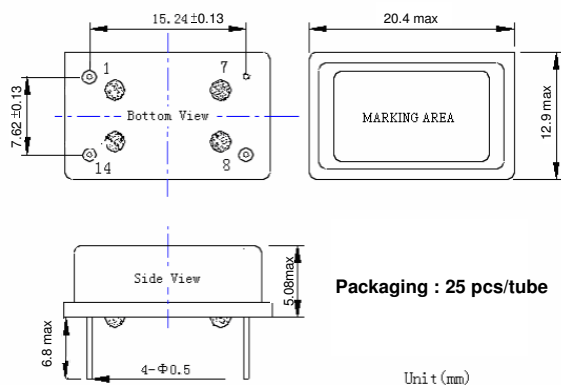
- SPECIFICATIONS

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°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.)	20mA	30mA	40mA	60mA
OUTPUT	LOAD TTL	1 ~ 10TTL			
	LOAD HCMOS	~50M:50pF, ~70M: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		10nS Max (Tr: 10%V _{DD} ~90%V _{DD} , Tf: 90%V _{DD} ~10%V _{DD})			
START-UP TIME		10mS max			



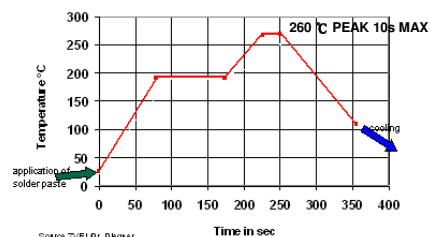
*Include: 25°C tolerance, operating temperature range, input voltage change, aging 1st year, load change, shock and vibration

- 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-25-5XT
APO-FTH	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