

**CLOCK OSCILLATORS Tri-State Enable / Disable COMPATIBLE**  
**(Rohs Compliant / Lead Free)**

**Oscillators Full Size (APO-FTS Series) 5V**



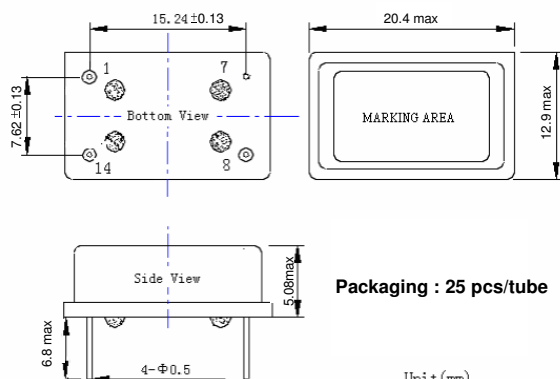
**- SPECIFICATIONS**

<b>FREQUENCY RANGE</b>		0.5MHz TO 23.999MHz	24MHz TO 49.999MHz	50MHz TO 69.999MHz	70MHz TO 150MHz
<b>FREQUENCY STABILITY (ALL INCLUSIVE*)</b>		±20PPM, ±25PPM, ±50PPM, ±100PPM			
<b>TEMPERATURE RANGE</b>	<b>OPERATING</b>	0°C TO +70°C STANDARD			
		-40°C TO +85°C EXTENDED			
	<b>STORAGE</b>	-55°C TO +125°C			
<b>AGING (FIRST YEAR)</b>		±5PPM			
<b>INPUT</b>	<b>VOLTAGE</b>	+5VDC ±10%			
	<b>CURRENT (MAX.)</b>	20mA	30mA	40mA	60mA
<b>OUTPUT</b>	<b>LOAD TTL</b>	1 ~ 10TTL			
	<b>LOAD HCMOS</b>	~50M:50pF, ~70M:30pF, ~150M:15pF			
	<b>SYMMETRY</b>	NORMAL: 40% TO 60%			
		TIGHT: 45% TO 55%			
	<b>VOLTAGE</b>	<b>VoH</b>	90% VDD min		
<b>VoL</b>		10% VDD max			
<b>RISE/FALL TIME</b>		10nS Max (Tr: 10%VDD~90%VDD, Tf: 90%VDD~10%VDD)			
<b>START-UP TIME</b>		10mS max			
<b>PIN 1, TRI-STATE FUNCTION</b>		Pin 1=H or open... Output active at pin 8 Pin 1=L... high impedance at pin 8			



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

**- OUTLINE DIMENSIONS**



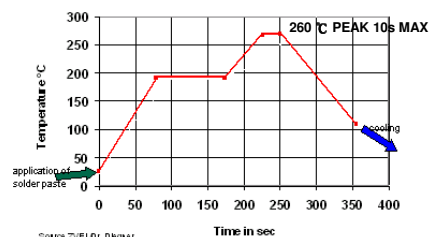
Packaging : 25 pcs/tube

Unit (mm)

PIN	CONNECTION
#1	Tri-State/NC
#7	Ground
#8	Output
#14	VDD

ENABLE / DISABLE FUNCTION	
Input (Pin 1)	Output (Pin 8)
Open	Enable
V <sub>IN</sub> ≥ 2.2V <sub>DC</sub>	Enable

**- SOLDER REFLOW PROFILE**



ORDERING CODE SYSTEM (VERSION 1.1 UPDAED MAY 2008)						EXAMPLE:
SERIES	STABILITY	FREQUENCY	INPUT VOLTAGE	TEMPERATURE RANGE	OPTIONAL / BLANK	APO-FTSJ-25-5XT
APO-FTS	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