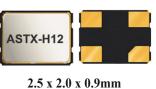
HCMOS OUTPUT SMD TCXO



ASTX-H12

Moisture Sensitivity Level (MSL)-1

FEATURES:

- HCMOS Output
- Compact and low in height
- Low current consumption; IR reflow possible
- Suitable for high-density SMT

► **APPLICATIONS**:

ESD Sensitive

- Cellular and cordless phones
- Standard OSC for exact equipment
- Mobile communication equipment
- Portable radio equipment and music player

(Pb)

RoHS/RoHS II compliant

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	3.200		55.000	MHz	
Standard Frequencies	5, 10, 1	5, 10, 12, 16, 20, 24, 32, 40, 44		MHz	
Operating Temperature	-30		+75	°C	
Storage Temperature:	-40		+125	°C	
Frequency Stability Δf/f0 vs Tolerance (@+25°C)	-2.0		+2.0		1 hr after reflow
vs Temperature (ref. to +25°C)	-2.5		+2.5		See option (Table 1)
vs Supply Voltage Change (Vdd±5%)	-0.2		+0.2	ppm	
vs Load Change (ZL±10%)	-0.2		+0.2		
vs Aging (first year @+25°C)	-1.0		+1.0		
Supply Voltage (Vdd)	+2.97	+3.3	+3.63	V	See option
Supply Current (Icc)			4.0	mA	4~10MHz
			4.8		~20MHz
			5.5		~30MHz
			6.0		~40MHz
			7.0		~54MHz
Rise and Fall Time (Tr/Tf)			5	ns	10%-90%Vdd
Symmetry	45		55		@1/2 Vdd
Output Voltage	90%Vdd			V	
V _{OL}			10%Vdd		
Load			15	pF	
Waveform		HCMOS	1		
Phase Noise (Frequency dependant)		-130		dBc	@1kHz offset
		-158		ubu	@100kHz offset
Tri-state Function (Stand-by) :	"1" (VIH≥0.75*Vdd) or Open: Oscillation "0" (VIL<0.25*Vdd) : Hi Z			V	





HCMOS OUTPUT SMD TCXO

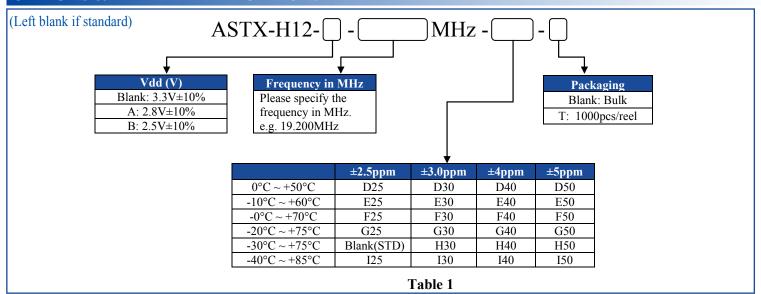
ASTX-H12

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RoHS/RoHS II compliant

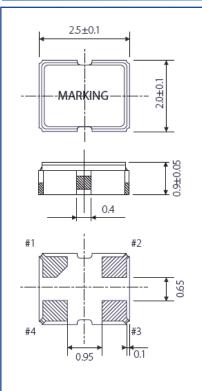
2.5 x 2.0 x 0.9mm

OPTIONS & PART IDENTIFICATION:



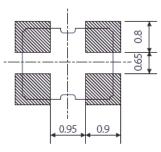
(Pb)

OUTLINE DIMENSIONS:



PIN	FUNCTION		
1	Tri-state		
2	GND		
3	Output		
4	Vdd		

Recommended Land Pattern



Tri-state pin	Output		
High or floating	Active		
Low	Hi-impedance		

Note: Recommend using an approximately $0.01 \mu F$ bypass capacitor between Pin 2 and 4.

Dimensions: mm

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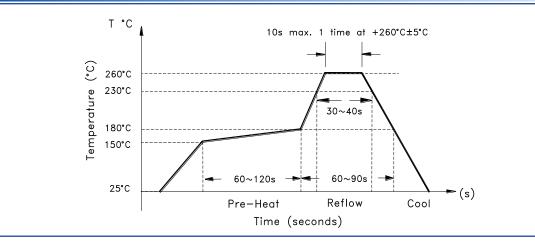
ASTX-H12



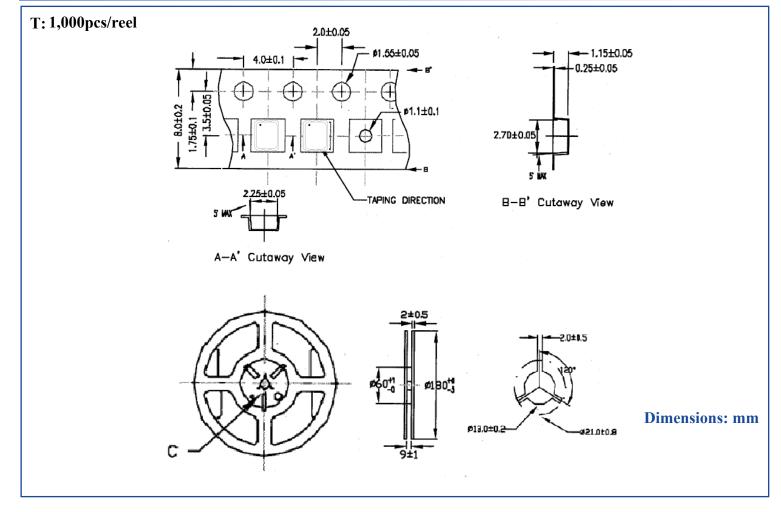
2.5 x 2.0 x 0.9mm

ASTX-H12

REFLOW PROFILE:



▷ TAPE & REEL:



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