# **HCMOS OUTPUT SMD TCXO**









3.2 x 2.5 x 1.0mm

#### 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:

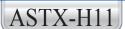
- Cellular and cordless phones
- Standard OSC for exact equipment
- Mobile communication equipment
- Portable radio equipment and music player

### STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	2.500		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	ppm	See option (Table 1)
vs Supply Voltage Change (Vdd±5%)	-0.2		+0.2		
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 $V_{OH}$ $V_{OL}$	90%Vdd		10%Vdd	V	
Load			15	pF	1
Waveform	HCMOS				
Phase Noise (Frequency dependant)		-130	dBc		@1kHz offset
		-158		ubc	@100kHz offset
Tri-state Function (Stand-by):	"1" (VIH≥0.7 5*Vdd) or Open: Oscillation "0" (VIL<0.25*Vdd) : Hi Z		V		



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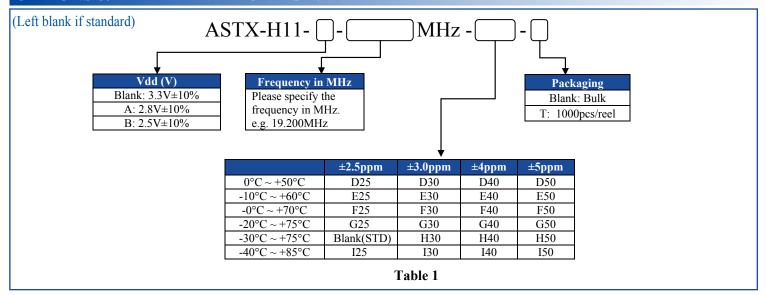






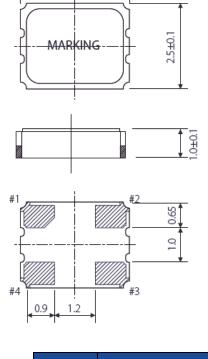
3.2 x 2.5 x 1.0mm

### **OPTIONS & PART IDENTIFICATION:**



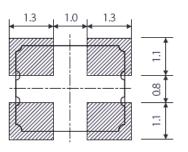
### **OUTLINE DIMENSIONS:**

3.2±0.1



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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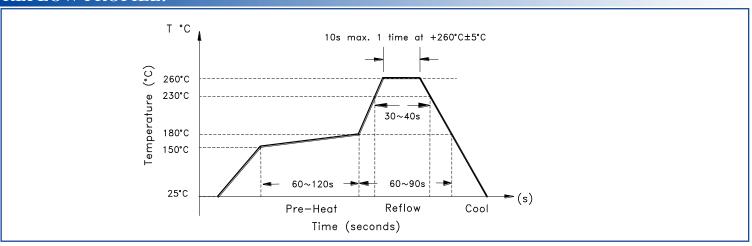




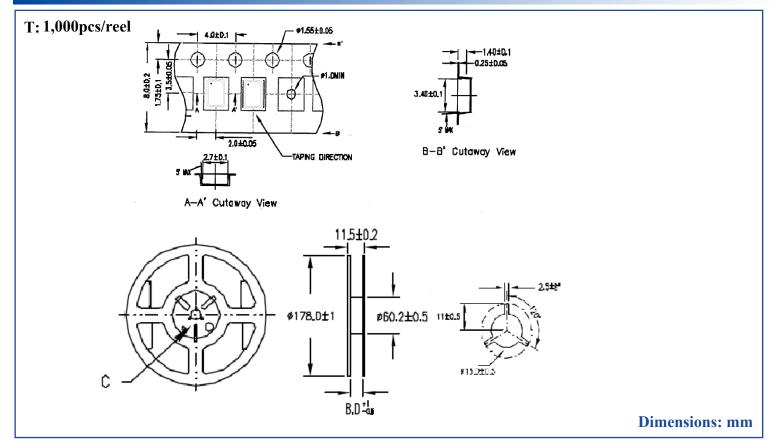


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## **REFLOW PROFILE:**



## **TAPE & REEL:**



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