

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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	Mini	mum	Typical	Maximum	Units	Notes
Frequency Range	2.5	500		55.000	MHz	
Standard Frequencies		5, 10, 12, 16, 20, 24, 32, 40, 44		MHz		
Operating Temperature	-3	30		+75	°C	
Storage Temperature:	-4	10		+125	°C	
Frequency Stability Δf/f0 vs Tolerance (@+2.	5°C) -2	2.0		+2.0	ppm	1 hr after reflow
vs Temperature (ref. to +2.	5°C) -2	2.5		+2.5		See option (Table 1)
vs Supply Voltage Change (Vdd±	5%) -0	0.2		+0.2		
vs Load Change (ZL±1	0%) -0	0.2		+0.2		
vs Aging (first year @+2.	5°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}		Vdd		10%Vdd	V	
Load				15	рF	
Waveform			HCMOS			
Phase Noise (Frequency dependant)		-130		dBc	@1kHz offset	
			-158		abc	@100kHz offset
Tri-state Function (Stand-by) :	"1" ("1" (VIH≥0.7 5*Vdd) or Open: Oscillation "0" (VIL<0.25*Vdd) : Hi Z		V		



MOS OUTPUT SMD TCXO

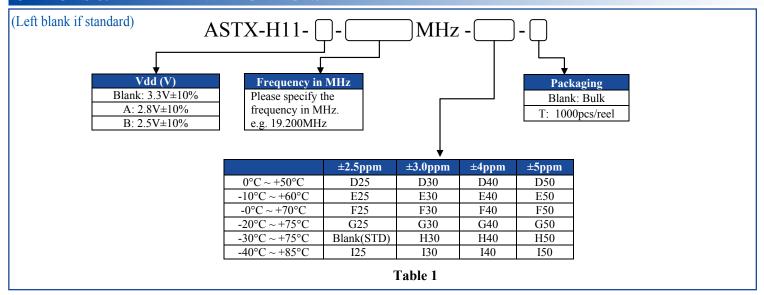
ASTX-H11





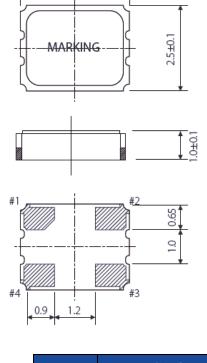
3.2 x 2.5 x 1.0mm

> OPTIONS & PART IDENTIFICATION:



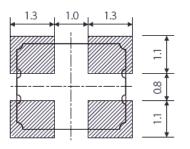
OUTLINE DIMENSIONS:

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





MOS OUTPUT SMD TCXO

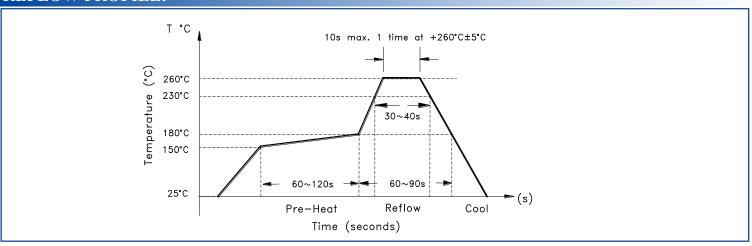
ASTX-H11



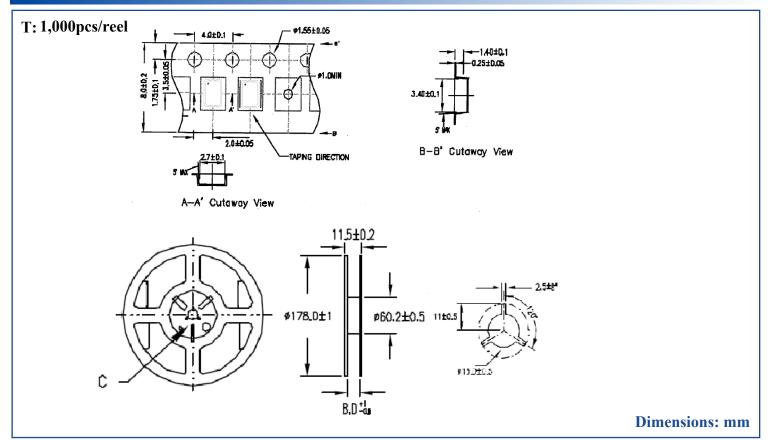


3.2 x 2.5 x 1.0mm

REFLOW PROFILE:



TAPE & REEL:



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