HM **International**
Frequency Technology

European Crystal Organization
Frequency Technology

Klove Electronics
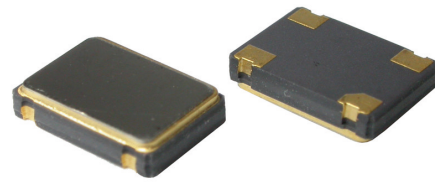Frequency Technology

SXAST | CLIPPED SINE WAVE SURFACE MOUNT TCXO

FEATURES

1.65x1.25 x 0.6 mm

▹ Smallest TCXO package
▹ Tight stability
▹ Applications : GPS, Mobile phone, WLAN, …

Item	Specification				
Frequency Range	19.2 MHz to 52.0 MHz				
Output Signal	Clipped Sine Wave				
Supply Voltage Vdd (see options)	+1.8V ±5%	+2.5V ±5%	+2.8V ±5%	+3.0V ±5%	+3.3V ±5%
Supply Current Idd	≤ 30.0 MHz 1.5 mA max > 30.0 MHz 1.7 mA max				
Frequency Tolerance	±1.5 ppm max. at 25°C ±2°C (one hour after reflow)				

Frequency Stability vs Temperature
(see options)

	±0.5 ppm	±1.0 ppm	±1.5 ppm	±2.0 ppm	±2.5 ppm	±3.0 ppm
-10° to +60°C	O	O	O	O	O	O
-20° to +70°C	O	O	O	O	O	O
-30° to +75°C	O	O	O	O	O	O
-30° to +85°C	O	O	O	O	O	O
-40° to +85°C	X	◊	O	O	O	O

O = available   ◊ = please contact us   X = not available

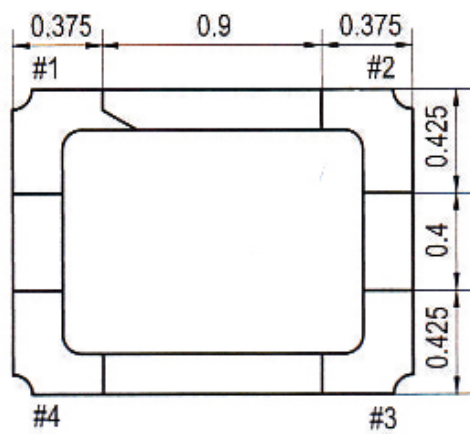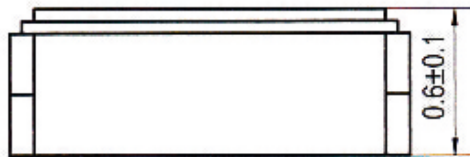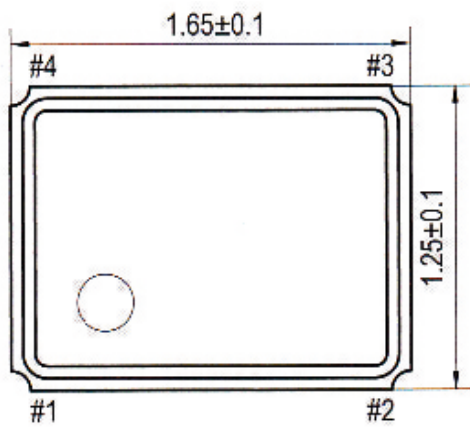| Item	Specification
Frequency Stability vs Aging	±1.0 ppm max. per year at 25°C
Frequency Stability vs Voltage Change	±0.2 ppm max. , for a ±5% input voltage change
Frequency Stability vs Load Change	±0.2 ppm max. , for a ±10% load condition change
Output Level	≥1.0 V p-p
Output Load	10 kΩ // 10 pF
Harmonics of output signal	-5 dBc max.
Phase noise	-135 dBc/Hz typ. at 1 kHz offset
Start-up Time	3 ms max.
Packing Unit	3000pcs / reel
Soldering Condition	260°C , 10 sec x2 max
	Customer specifications on request

* Need to contact us for the available frequency.

OPTIONS & ORDERING INFORMATION

SXAST ....   MHz

SXAST	Supply Voltage *	Operating Temp. *	Temperature Stability *	Tri-state Function	Package type	Frequency in MHz
	18 = +1.8V	D = -10° / +60°C	0.5 = ±0.5 ppm		4P = 4-pad version	Please specify the frequency in MHz
	25 = +2.5V	F = -20° / +70°C	1.0 = ±1.0 ppm	F = no Tri-state		
	28 = +2.8V	G = -30° / +75°C	1.5 = ±1.5 ppm			
	30 = +3.0V	H = -30° / +85°C	2.0 = ±2.0 ppm			
	33 = +3.3V	K = -40° / +85°C	2.5 = ±2.5 ppm			
			3.0 = ±3.0 ppm			

* Note : Not all combinations are possible , please consult us.

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OUTLINE DIMENSIONS (MM)

Pin Connections
#1 : GND
#2 : GND
#3: Output
#4 :Vdd