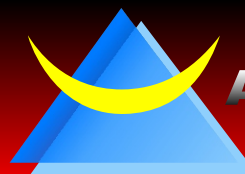


# TA SERIES

- 5mm x 7mm Ceramic SMD 8 Pads
- 5.0 and 3.3 Volt
- Clipped Sinewave Output
- Stability Down to  $\pm 1.5\text{ppm}$



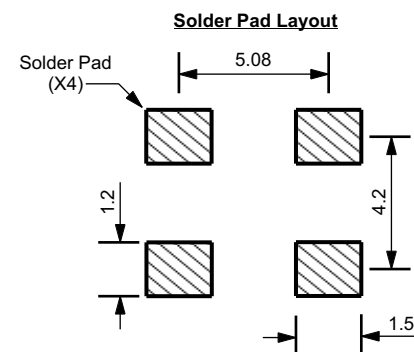
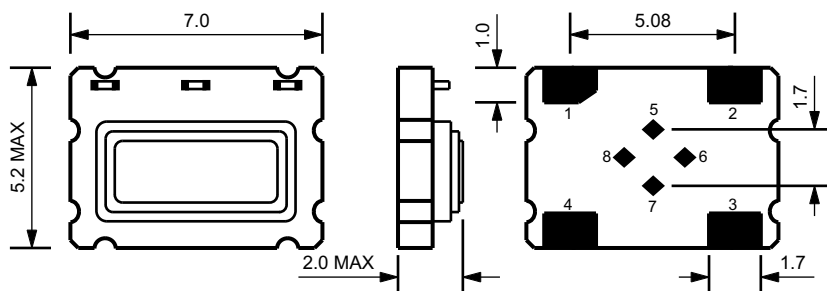
**ASCEND**

FREQUENCY DEVICES

## Electrical Specifications

Frequency Range:	-	9.600MHz to 27.000MHz
Temperature Stability:	-	$\pm 1.5\text{ppm}$ to $\pm 5\text{ppm}$ (Inclusive of Temperature, Load, Voltage and Aging)
Operating Temperature Range:	-	0°C to +50°C thru -40°C to +85°C
Storage Temperature Range:	-	-40°C to +85°C
Supply Voltage (Vdd):	-	3.3Vdc $\pm 5\%$ or 5.0Vdc $\pm 5\%$
Supply Current:	Vdd = 3.3V or 5.0V	2.0mA Maximum
Control Voltage:	Vdd = 3.3V Vdd = 5.0V	1.65Vdc $\pm 1.5\text{Vdc}$ (Positive Slope) 2.5Vdc $\pm 2.0\text{Vdc}$ (Positive Slope)
Output:	Vdd = 3.3V Vdd = 5.0V	0.8Vp-p minimum 1.0Vp-p minimum
Output Load:	-	10K Ohms // 10pF
Start-up Time:	-	10mS Maximum
Pad 1 Connection:	Blank Option V Option	No Connect $\pm 10\text{ppm}$ Minimum

## Mechanical Dimensions



Pad	FUNCTION
1	Control Voltage or N/C
2	Case Ground
3	Output
4	Supply Voltage
5 - 8	Factory Test Terminals (do not use)

### MARKING

Line 1: AXX.XXX  
Line 2: XXXXXX (Date Code)

ALL DIMENSIONS  
IN MILLIMETERS

## Part Numbering Guide

# TA 3 S 15 A N - 33.000M

### Series

5 x7 Ceramic SMD 6 Pads

### Supply Voltage

3 = 3.3V  
5 = 5.0V

### Output Type

S = Clipped Sinewave

### Frequency Stability\*

15 =  $\pm 1.5\text{ppm}$   
20 =  $\pm 2.0\text{ppm}$   
25 =  $\pm 2.5\text{ppm}$   
30 =  $\pm 3.0\text{ppm}$   
35 =  $\pm 3.5\text{ppm}$   
50 =  $\pm 5.0\text{ppm}$

### Frequency

### Pad 5 Connection

N = No Connect  
V = Voltage Control

### Operating Temperature Range

A = 0°C to +50°C  
B = -10°C to +60°C  
C = -20°C to +70°C  
D = -30°C to +70°C  
E = -30°C to +80°C  
F = -40°C to +85°C  
G = 0°C to +70°C

\* Check with factory for additional Stability vs. Temperature options