



# **LVDS - LVPECL & CMOS Output**

20 MHz to 300 MHz

Differential Output Crystal Oscillator

### **DESCRIPTION**

Statek's 5 mm x 7 mm surface mount Differential Output Crystal Oscillator is designed for applications requiring low jitter and ultra high frequency differential outputs in a small footprint. Offered at frequencies from 20 MHz to 300 MHz with operation over a temperature range of (-40°C to +105°C). No external decoupling capacitor required with internal capacitor.

#### **FEATURES**

- LVDS LVPECL- CMOS outputs available
- Low phase noise Low phase jitter
- Internal 0.01µF SMD decoupling capacitor
- Low Allan deviation
- High Frequency Fundamental Mode Crystal
- Extended Industrial temperature range

#### **APPLICATIONS**

## Military & Aerospace

- Avionics
- Communications
- Networking

### **TERMINATIONS**

Designation	Termination

SM1 Gold Plated (Pb Free)

SM3 Solder Dipped

SM5 Solder Dipped (Pb Free)

# **ENABLE/DISABLE OPTIONS (T/N)**

Statek offers two enable/disable options: T and N. The T-version has a Tri-State output and continues to oscillate internally when the output is put into the high Z state. As a result, when re-enabled, the oscillator does not have to restart and an output with a stable frequency resumes almost immediately. The N-version does not have PIN 2 connected internally and so has no enable/disable capability. The following table describes the Enable/Disable option T.

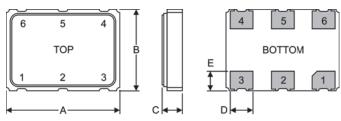
#### **ENABLE/DISABLE OPTION T FUNCTION TABLE**

	Enable (PIN 1 High*)	Disable (PIN 1 Low)	
Output	Frequency Output	High Z State	
Oscillator	Oscillates	Oscillates	
Current	Normal	Lower than normal	

<sup>\*</sup>When PIN 1 is allowed to float, it is held high by an internal pull-up resistor.



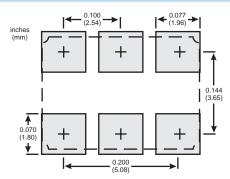
### **DIMENSIONS**



### PACKAGE DIMENSIONS

Dimension	Minimum	Typical	Maximum
	mm	mm	mm
А	6.86	7.00	7.16
В	4.85	5.00	5.16
C (SM1)	1.55	1.75	1.95
C (SM3/SM5)	1.65	1.85	2.05
D	1.19	1.40	1.41
Е	1.07	1.27	1.47

## SUGGESTED LAND PATTERN



### PIN CONNECTIONS

- 1. (T) Enable/Disable or not connected (N)
- 2. (NC) Not Connected
- 3. Ground
- 4. LVDS LVPECL CMOS
- 5. LVDS LVPECL (complementary)
- 6. Supply Voltage (V<sub>DD</sub>)

10196 Rev C







