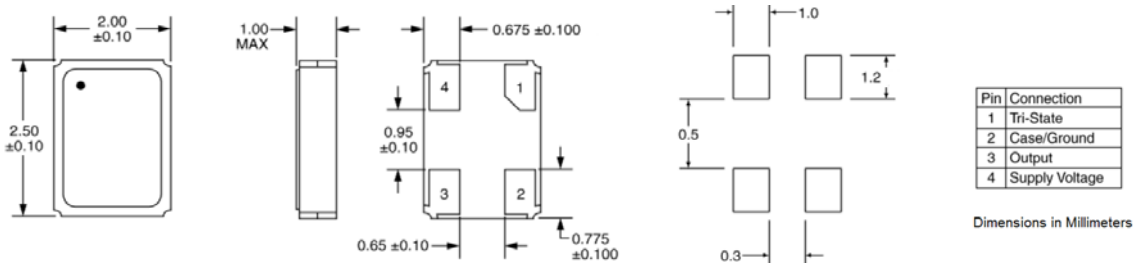
QEAO Series

Automotive Grade, SMD Oscillator, 2.5x2.0x1.0mm, LVCMOS

Frequency	1.0MHz to 160.000MHz
Output Level	
Level	'0'=0.1 Vdd Max., '1'=0.9 Vdd Min.
Duty Cycle	50% ± 5 % (Measured at 50% of Waveform)
Rise/ Fall Time	6 nS Max. (Measured from 20% to 80% waveform)
Output Load	15 pF Maximum
Stability	
Over all Frequency Stability	See Frequency Stability below (Includes temperature, voltage, load stability, aging for 1st year at 25°C and initial tolerance at shipping @ 25° C)
Supply Voltage	1.8V, 2.5V, 2.8V, 3.0V, 3.3V ± 10 %
Current	20 mA Max (No Load)
Temperature	
Operating	See table below
Storage	-55°C to +125°C
Environment	
Sealing	4×10^{-9}Pa•m^3/s Max.(by He leak detector)
Shock Resistance	75cm(Guaranteed for 3 free falls on hardwood surface from 75cm height)
Damp Heat	40±2°C, 90~95% RH (Guaranteed 1,000H at 40±2°C, 90~95% RH)
Jitter	
RMS Period Jitter	5pSec Max. (Vdd = 2.5v, 2.8V, 3.0V, 3.3V) 6pSec Max. (Vdd = 1.8V)
Peak to Peak Period Jitter	30pSec Max. (Vdd = 2.5v, 2.8V, 3.0V, 3.3V) 40pSec Max. (Vdd = 1.8V)
Standby Current	10uA Max. (Disable Output, High Impedance)

Part Number Guide **Sample Part #: QEAO-3E1H-25.000**

	Supply Voltage	Operating Temperature Range	Stability (in ppm)	Function	Frequency
QEAO	1 = 1.8V	C = -20°C to +70°C	1 = ±100	H = Output Enable	25.000 MHz
	2 = 2.5V	E = -40°C to +85°C	2 = ±50		
	6 = 2.8V	I = -40°C to +105°C	3 = ±25		
	4 = 3.0V	J = -40°C to +125°C			
	3 = 3.3V				



Pin	Connection
1	Tri-State
2	Case/Ground
3	Output
4	Supply Voltage

Dimensions in Millimeters

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