

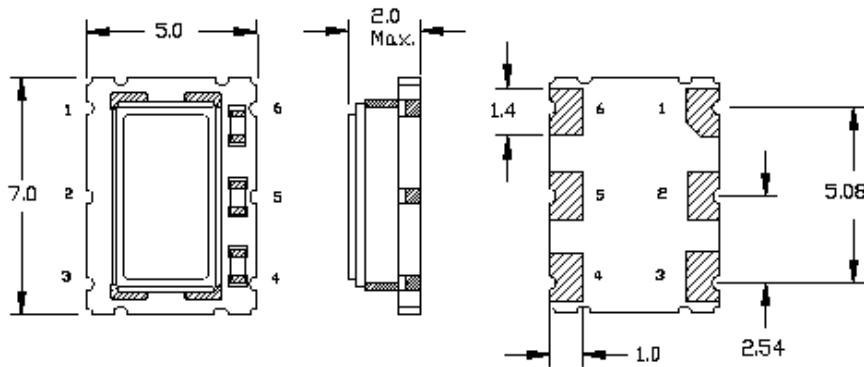
# QMO Series

## SMD Oscillator, 7x5x2mm, LVDS or PECL

<b>Frequency</b>	1.000 MHz to 800.000 MHz	
<b>Output Level</b>	LVDS	PECL
<b>Level</b>	Vod = 393 mV Typ., 475 mV Max.	'0' = Vcc - 1.63 V Max. '1' = Vcc - 1.02 V Min.
<b>Duty Cycle</b>	Specify 50% ± 10% or ± 5% See Table	
<b>Rise / Fall Time</b>	0.6 nS Max.	
<b>Output Load</b>	100 Ω Differential	50 Ω to Vcc - 2.0 VDC
<b>Frequency Stability</b>	See Frequency Stability Table (Includes room temperature tolerance and stability over operating temperature)	
<b>Start-up Time</b>	10 mS Max.	
<b>Enable / Disable Time</b>	100 nS Max.	
<b>Supply Voltage</b>	3.3 VDC ±10%	
<b>Current</b>	130 mA Max.**	130 mA Max.**
<b>Temperature</b>	See Operating Temperature Table	
<b>Operating</b>	-55° C to +125° C	
<b>Storage</b>	See Application notes for Environmental information for Tape and Reel information	
<b>Environmental</b>	MSL = N.A., Termination = e4	
<b>Package Information</b>	MSL = N.A., Termination = e4	
<b>Part Number Guide</b>	<b>Sample Part Number: QMO-3ATA1T-156.250</b>	
<b>Package</b>	<b>Input Voltage</b>	<b>Operating Temperature</b>
QMO-	3 = 3.3 V	A = 0° C to +70° C
	4 = 3.0 V	B = -10° C to +70° C
	1 = 2.7 V	C = -20° C to +70° C
	2 = 2.5 V	D = -30° C to +75° C
		E = -40° C to +85° C
	<b>Symmetry (Duty Cycle)</b>	<b>Output</b>
	T = 45 / 55 Max.	A = LVDS
	S = 40 / 60 Max.	B = PECL
		<b>Stability (in ppm)</b>
		1 = ± 100
		2 = ± 50
		3 = ± 25*
		4 = ± 20*
		<b>Enable / Disable</b>
		T = Enable (Pin 1)
		V = Enable (Pin 2)
		<b>Frequency</b>
		- 156.250 MHz

NOTE: A 0.01 µF bypass capacitor is recommended between Vcc (pin 6) and GND (pin 3) to minimize power supply noise.

\* Not available for all temperature ranges. \*\* Frequency, supply, and load related parameters.



Tri-State Function (Option T)	
Pin 1 Open	Enable
Pin 1 70% Vdd	Enable
Pin 1 30% Vdd	Disable

Tri-State Function (Option V)	
Pin 2 Open	Enable
Pin 2 70% Vdd	Enable
Pin 2 30% Vdd	Disable

Pin	Connection
1	Enable
2	N.C.
3	GND
4	Output
5	Comp. Output
6	Vcc

Dimension Units: mm

### QVS TECH INC

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Specifications subject to change without notice (Rev D)