QTO Series

QTO™ Quick Turn Oscillator™ Programmable Oscillator

- High Frequency Output
- Various Output Options
  - TTL, HCMOS or PECL
  - Single or Dual Ouput Options
  - Powerdown or Enable/Disable Options
- Ceramic SMD package
- 3.3V and 5.0V Supply Voltage

ELECTRICAL SPECIFICATIONS

Frequency Range		340kHz to 250MHz	
Frequency Stability		±25ppm ±30ppm ±50ppm ±100ppm	
Operating Temperature Range		0°C to +70°C or –40°C to 85°C	
Storage Temperature Range		-55 ~ +125°C	
Input Voltage		$3.3V_{DC}$ ±10%	$5.0V_{DC}$ ±10%
Input Current		25mA Max	45mA Max
Symmetry		50±10% Standard, 50±5% Available	
Rise Time / Fall Time		10 to 90% V_{DD} 90 to 10% V_{DD}	5nSeconds 5nSeconds
Output Voltage	V_{OL} V_{OH}	V_{DD}: 0.4 Max I_{OH}=40mA V_{DD}: -0.5 Min I_{OH}=-40mA	
	V_{OL} (PECL) V_{OH} (PECL)	V_{DD}: -2.0V Min V_{DD}: -1.0V Min	V_{DD}: -1.6V Max V_{DD}: -1.6V Max
Output Load		V_{DD} = 3.3V HCMOS <100.000MHz 15pF HCMOS Load Max >100.000MHz 10pF HCMOS Load Max	
		V_{DD} = 5.0V HCMOS <100.000MHz 25pF HCMOS Load Max >100.000MHz 10pF HCMOS Load Max	

Note: A 0.01µF by pass capacitor is recommended between V_DD (pin 4) and Ground (pin 2) to minimize power supply Noise.

PART NUMBERING GUIDE

QTO _ .3 C _ – 25.000MHz

Ouput Option
Blank - TTL / CMOS
D - Dual
P - PECL

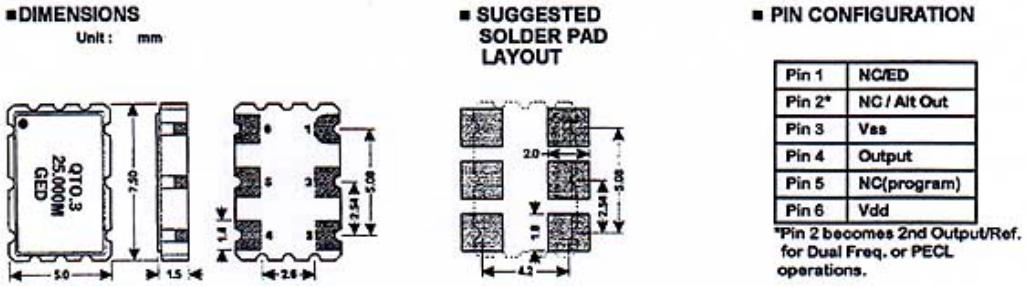
Input Voltage
Blank - 5.0V
.3 - 3.3V

Frequency

Operating Temperature Range
Blank - -10°C to 70°C
ET - -40°C to 85°C

Frequency Stability
A = ±100ppm
B = ±50ppm
C = ±25ppm

PACKAGE DIMENSIONS



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