



Series Number		QTO-1811H ⁽¹⁾ ⁽²⁾	QTO-1811C ⁽¹⁾ ⁽²⁾
Frequency Range		1.00 kHz ~ 800 MHz	6.00 MHz ~ 190 MHz
Supply Voltage ⁽¹⁾		A = +3.3V ±5% B = +5.0V ±5%	
Frequency Adjustment		±3 ppm (min) by internal adjustment	
Frequency Stability	vs. Temperature ⁽²⁾ (refer to 25°C)	±0.5 ppm to ±5.0 ppm A = ±0.5 ppm over -20°C to +70°C B = ±1.0 ppm over -30°C to +75°C C = ±2.5 ppm over -40°C to +80°C (for other options please contact our Sales Department)	
	vs. Voltage Change	±0.1 ~ ±0.2 ppm (max) / V _{DD} ±5%	
	vs. Load	±0.2 ppm / 15pF load	
	vs. Aging @ 25°C	±1.0 ppm max per year	
Input Current	1.0 kHz ~ 40 MHz	15 mA (max) ~ 30 mA (max)	—
	>40 MHz ~ 800 MHz	30 mA (max) ~ 50 mA (max)	—
	6 MHz ~ 190 MHz	—	2 mA (max) ~ 30 mA (max)
Output	<u>HCMOS</u>		<u>Clipped Sinewave</u>
	Output Logic High (V _{OH})	90% V _{DD} (min)	+3.3V 0.8 p-p (min)
	Output Logic Low (V _{OL})	10% V _{DD} (max)	+5.0V 1.0 p-p (min)
	Duty Cycle (V _{DD})	40 / 60	—
	Load	15 pF	10 kΩ // 10 pF
	Rise and Fall Time	10 nS (max)	—
Phase Noise Offset (20 MHz) (Typical)	10 Hz : -80 dBc / Hz 1 kHz : -135 dBc / Hz 100 Hz : -120 dBc / Hz 10 kHz : -140 dBc / Hz 100 kHz : -145 dBc / Hz		

Note (1): Customer to add 'A' or 'B' to part number for *Supply Voltage* to indicate choice.

Note (2): Customer to add 'A' or 'B' or 'C' to part number for *Frequency Stability v. Temperature* to indicate choice.

Note: The above specifications are typical only. Please contact our Sales Department for specific requirements.

