



Series Number		QSMO-9510	QSMO-9530
Frequency Range		10 ~ 40 MHz	
Supply Voltage		+3.3V ±5%	+5.0V ±5%
Initial Calibration Tolerance		±500 ppb (max) V _{con} = +1.65V	±500 ppb (max) V _{con} = +2.5V
Frequency Stability	vs. Temperature (refer to 25°C)	±10ppb (max) over -30°C to +70°C ±20ppb (max) over -40°C to +85°C	
	vs. Voltage Change	±10ppb (max) for a ±5% input voltage change	
	vs. Warm-up time (to 25°C)	5 minute maximum within ±0.1ppm of its reference frequency	
	vs. Aging	±3ppb max after 30 days ±600ppb max over one year ±3ppm max over 10 years	
	vs. Reflow	±1.0ppm max. 1 reflow measured 24 hours afterwards	
Voltage Control On pin 1 (EFC) (Electronic frequency tuning)	Frequency Deviation Range	> ±5ppm. Referenced to FO at ±25°C and over operating temperature range	
	Control Voltage Range	+1.65V ±1.65V	+2.5V ±2.5V
	Transfer Function	Positive: Increasing control voltage increases output frequency	
	Input Impedance	100 kΩ (min)	
	EFC Linearity	±10% (max)	
Power Dissipation (at +25°C)		0.4 watts (max) at steady state; 350mA (max) at turn-on	
Output	Output Logic High (V _{OH})	+2.4V (min)	+4.5V (min)
	Output Logic Low (V _{OL})	+0.4V (max)	+0.4V (max)
	Duty Cycle (V _{DD})	50% ±5% @ +1.65V	
	Load	15pF	
	Rise and Fall Time	7 ns (max) (from 20% to 80% of waveform)	
	Phase Noise Offset (10 MHz) (Typical)	10 Hz : -98 dBc 100 Hz : -126 dBc	1 kHz : -145 dBc 10 kHz : -152 dBc

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

