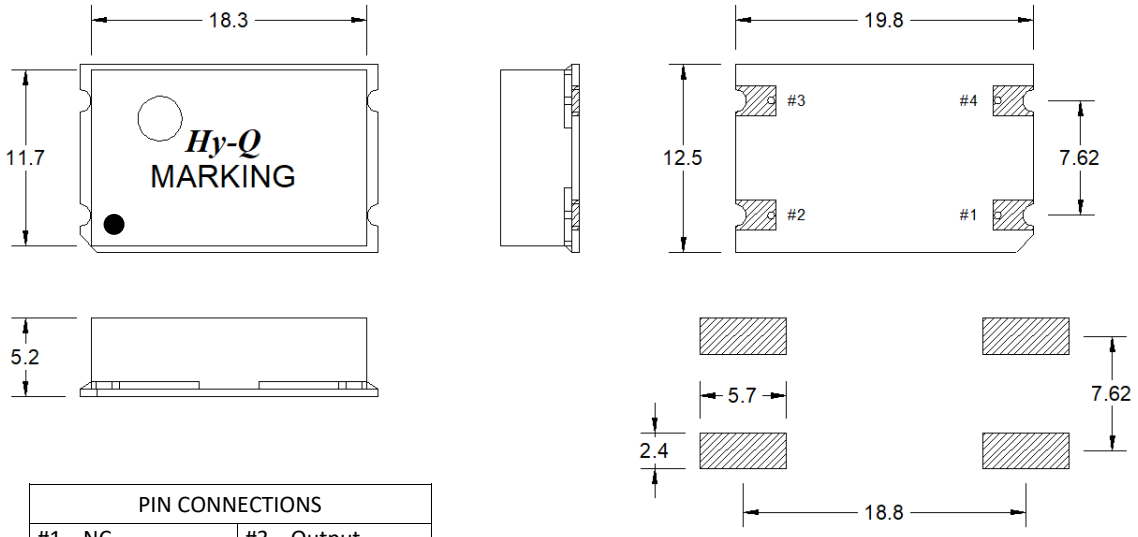

PIN CONNECTIONS	
#1 NC	#3 Output
#2 Ground	#4 V_{DD}

Suggested Pad Layout (Top View)

Series Number		**QSMO-1912H___ (1) ___ (2)**	**QSMO-1912C___ (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		HCMOS	Clipped Sinewave
	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.

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