



Series Number	QSMO-4110 <sup>(1)</sup>	QSMO-4150 <sup>(1)</sup>	QSMO-4160 <sup>(1)</sup>
Frequency Range	10.0 to 160 MHz		
Overall Frequency Stability (Max) <sup>(1)</sup>	L = ±5ppm -40° to 85° M = ±10ppm -40° to 85° N = ±15ppm -40° to 85° H = ±20ppm -40° to 85°		
Storage Temperature Range	-50°C to +125°C		
Supply Voltage	+3.3V ±5%	+1.8V ±5%	+2.5V ±5%
Supply Current (Max)	10 ~ 80 MHz 11mA >80 ~ 160 MHz 20mA		
Standby Current At '0' Level at #1	10µA		
Output Voltage "0" Level (Max) "1" Level (Min)	0.1V <sub>DD</sub> 0.9V <sub>DD</sub>		
Output Load (Max) CMOS Load	15pF		
Rise/Fall Times (Max) At 0.1V <sub>DD</sub> ~ 0.9V <sub>DD</sub>	6ns (≤40 MHz) 3ns (>40 MHz)		
Symmetry (Max) At 0.5V <sub>DD</sub> or 1.4V	45% / 55%		
Start-Up Time (Max)	5ms		
Tri-State Control #1 Open #1 ≥0.7V <sub>DD</sub> #1 ≤0.3V <sub>DD</sub>	#3 Active #3 Active #3 High Z		
Phase Jitter Offset Frequency	1ps (12 kHz ~ 20 MHz) 0.3ps (typical at 100 MHz)		

Note (1): Customer to add 'L' to 'H' for Overall Frequency Stability.

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

