



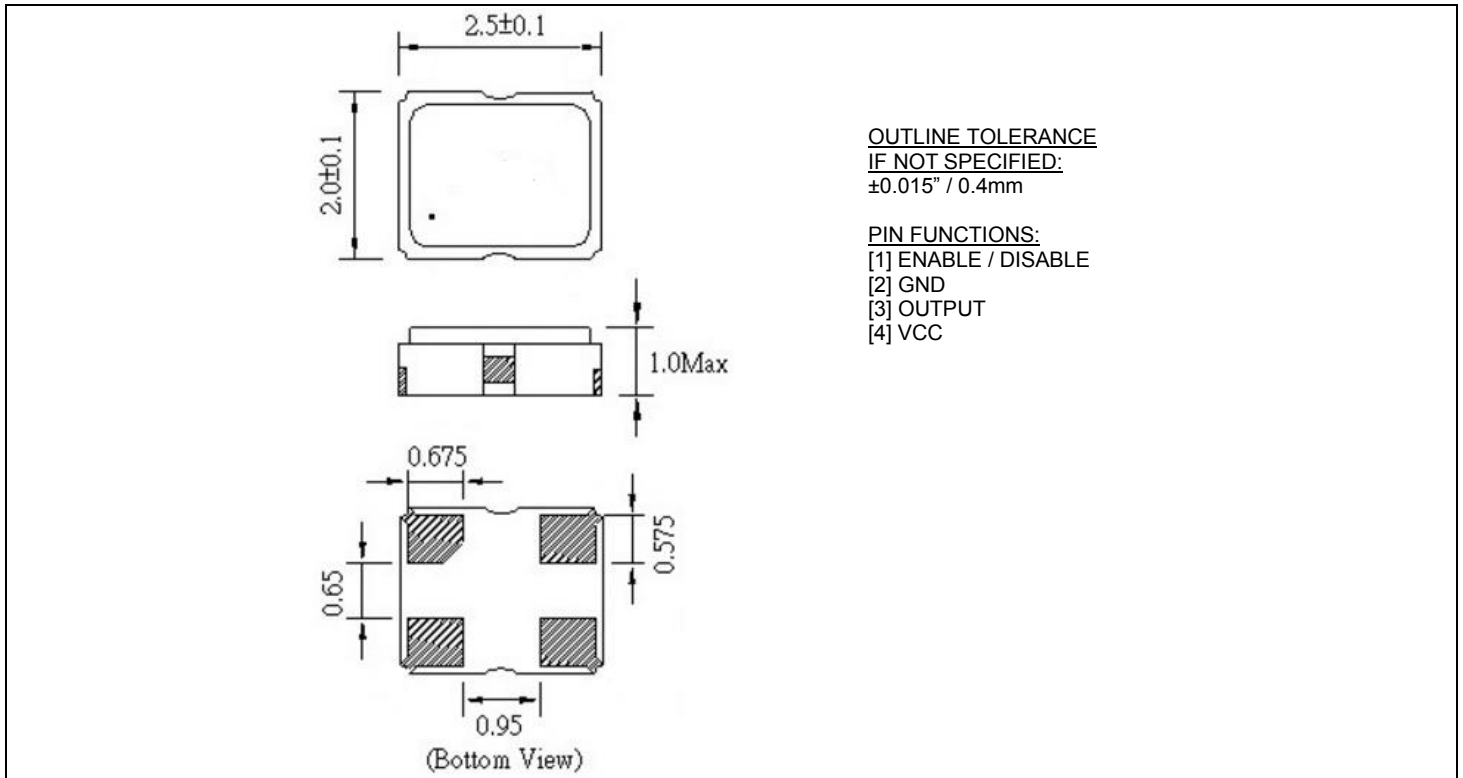
■ ELECTRICAL SPECIFICATION

PARAMETER		VALUE
Nominal Frequency		32.768 kHz
Operating Temperature Range		-20°C ~ +70°C Standard -40°C ~ +85°C Extended
Frequency Stability*		±20 ppm, ±25 ppm, ±30 ppm, ±50 ppm
Storage Temperature Range		-55°C to +125°C
Supply Voltage (Vcc)		1.8 V, 3.3 V, 5.0 V
Supply Current		240 µA max
Output CMOS	Symmetry	40% to 60% at 50% Vdd (45% to 55% Available)
	Rise / Fall Time	200 ns max at 10% to 90% Vdd
	Logic "0" Level	Vcc x 0.1 V max
	Logic "1" Level	Vcc x 0.9 V min
	Load	15 pF max
Enable / Disable Function		Pin 1: High or Open >> Output enabled Pin 3 Pin 1: Low >> Output disabled (High impedance)
Start-up Time		10 ms max

\* Inclusive of 25°C tolerance, operating temperature range, voltage or load changes, aging, shock and vibration, consult factory for tighter stability options.



■ **MECHANICAL SPECIFICATION**



■ **PART NUMBERING SYSTEM**

TYPE	SERIES	-	FREQUENCY (MHz)	-	SUPPLY VOLTAGE (Vcc)	-	STABILITY (ppm)	-	TEMPERATURE RANGE (°C)	-	SYMMETRY (Duty Cycle)	-	TAPE & REEL
Clock Oscillator	2520	-	0.032768	-	1.8: Vcc=1.8 2.5: Vcc=2.5 3.3: Vcc=3.3 5.0: Vcc= 5.0	-	20: ±20 ppm 25: ±25 ppm 30: ±30 ppm 50: ±50 ppm	-	blank: -20°C to +70°C X: -40°C to +85°C	-	blank: 40 to 60% T: 45 to 55%	-	TR

**EXAMPLE: CO2520-0.032768-2.5-20-T-TR**

Surface Mount CO2520, 2.5 x 2.0 mm, 32.768 kHz, 2.5 VDC Supply Voltage, ±20 ppm Overall Stability, from -20°C to +70°C, Symmetry 45% to 55%, Tape and Reel packaging.