



■ ELECTRICAL SPECIFICATION

PARAMETER		VALUE
Frequency Range		6.000 ~ 175.000 MHz
Operating Temperature Range		-20°C ~ +70°C Standard -40°C ~ +85°C Extended
Frequency Stability		±25 ppm, ±50 ppm, ±100ppm
Aging, 1 st Year		±5 ppm max
Storage Temperature Range		-55°C to +125°C
Supply Voltage (Vcc)		2.5 V, 3.3 V
Supply Current		70 mA max
Output LVPECL	Symmetry	40% to 60% at 50% Vdd (45% to 55% Available)
	Rise / Fall Time	0.5 ns max at 10% to 90% Vdd
	Logic "0" Level	Vcc-1.81V to Vcc-1.62V
	Logic "1" Level	Vcc-1.03V to Vcc-0.88V
	Load	50 Ω (to V _{CC} -2 V)
Enable / Disable Function		Pin 1: High or Open / Output enabled (Pins 4 & 5) Pin 1: Low / Output disabled (High impedance)
Phase Noise		-153dBc/Hz, Typical @ 100kHz offset
RMS Phase Jitter (12kHz ~ 20 MHz)		0.5 ps max

■ **MECHANICAL SPECIFICATION**

**OUTLINE TOLERANCE
IF NOT SPECIFIED:
±0.015" / 0.4mm**

PIN FUNCTIONS:
[1] ENABLE / DISABLE
[2] NC
[3] GND
[4] OUTPUT
[5] COMPLEMENTARY OUTPUT
[6] VCC

Recommended Soldering Pattern

■ **PART NUMBERING SYSTEM**

TYPE	SERIES	FREQUENCY (MHz)	SUPPLY VOLTAGE (Vcc)	STABILITY (ppm)	TEMPERATURE RANGE (°C)	SYMMETRY (Duty Cycle)	TAPE & REEL
Clock Oscillator CP	2520	6.000 ~ 175.000 MHz	2.5: Vcc=2.5 3.3: Vcc=3.3	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: CP2520-40.000-3.3-25-X-T-TR

Surface Mount CP2520 LVPECL Oscillator, 2.5 x 2.0 mm, 40.000 MHz, 3.3 VDC Supply Voltage, ±25 ppm Stability, from -40°C to +85°C, Symmetry 45% to 55%, Tape and Reel Packaging.