

SERIES OX5000

● FEATURES

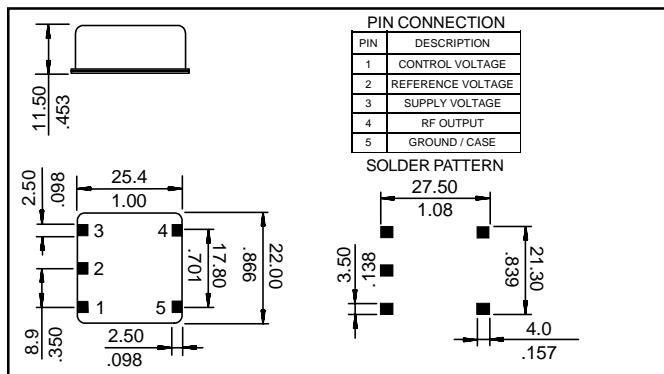
- ULTRA SMALL SMD PACKAGE
- STABILITY TO ± 0.1 PPM
- LASER TRIM OPTION FOR FINAL SYSTEM CALIBRATION

● SPECIFICATIONS

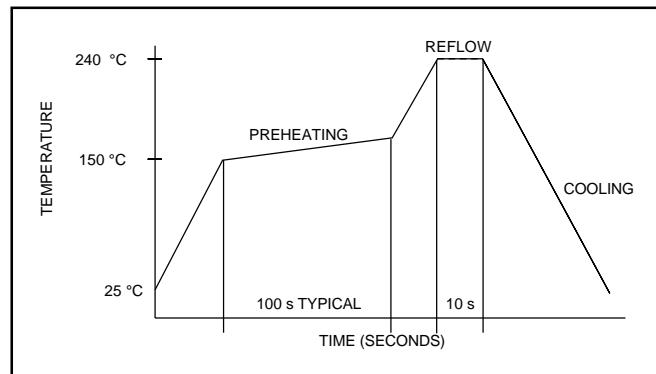
FREQUENCY RANGE	10.00 to 50.00 MHz
FREQUENCY STABILITY VS. OPERATING TEMPERATURE	± 0.1 PPM OVER 0°C TO +60°C ± 0.25 PPM OVER -20°C TO +70°C
FREQUENCY STABILITY VS. AGING	± 0.3 PPM FIRST YEAR AND ± 2.0 PPM OVER 10 YEARS STANDARD
OUTPUT WAVEFORM	CMOS AT NOMINAL LOAD OF 10 K OHM // 15 pF
OUTPUT LEVEL	VOH = 4.2 V MIN AND VOL = 0.4 V MAX
DUTY CYCLE	40/60 %
RISE AND FALL TIME	10 ns MAX AT NOMINAL LOAD
FREQUENCY STABILITY VS. LOAD VARIATION	± 0.005 PPM FOR $\pm 10\%$ VARIATION
SUPPLY VOLTAGE	+5.0 VDC $\pm 5\%$
FREQUENCY STABILITY VS. SUPPLY VARIATION	± 0.01 PPM FOR $\pm 5\%$ VARIATION
SUPPLY CURRENT	WARM-UP: 400 mA TYP AND 500 mA MAX AT +25°C STEADY STATE: 110 mA TYP AND 150 mA MAX AT +25°C
WARMUP TIME	2.0 min TYP AND 3.0 min MAX AT +25°C
ADJUSTMENT TOLERANCE	± 1.0 PPM AT VC = +2.5 V
FREQUENCY PULLING RANGE	± 3.0 PPM MINIMUM AT VC = +2.5 V ± 2.0 V
TYPICAL PHASE NOISE	SEE PHASE NOISE CHARACTERISTICS GRAPH
STORAGE TEMPERATURE RANGE	-40°C TO +85°C



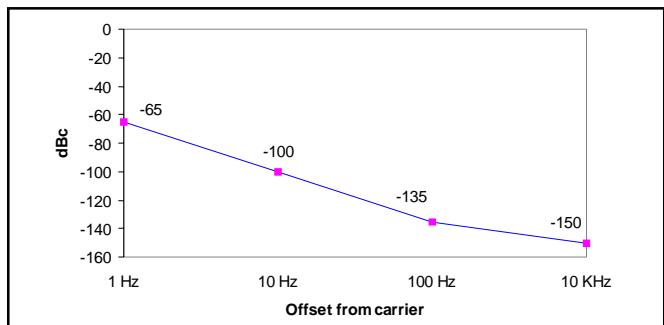
● OUTLINE DRAWING



● SOLDER REFLOW PROFILE



● PHASE NOISE CHARACTERISTICS



● PACKAGING

25 UNITS PER ELECTROSTATIC TUBE
25 PIECES PER ELECTROSTATIC TRAY

● PART NUMBERING SYSTEM

TYPE	OUTPUT TYPE	CRYSTAL CUT	PACKAGE TYPE	REVISION LEVEL	TEMPERATURE RANGE		FREQUENCY STABILITY	FREQUENCY
					LX: 0°C TO +60°C	HZ: -20°C TO +70°C		
OX	9: CMOS	1: AT CUT	50	RALTRON ASSIGNED			10: 0.1 PPM 25: 0.25 PPM	IN MHz

EXAMPLE: OX9150A-LX-10-10.000