

FEATURES

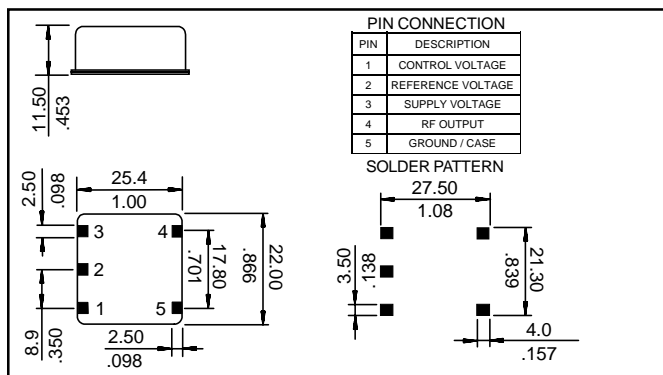
- ULTRA SMALL SMD PACKAGE
- STABILITY TO ± 0.1 PPM
- LASER TRIM OPTION FOR FINAL SYSTEM CALIBRATION

SPECIFICATIONS

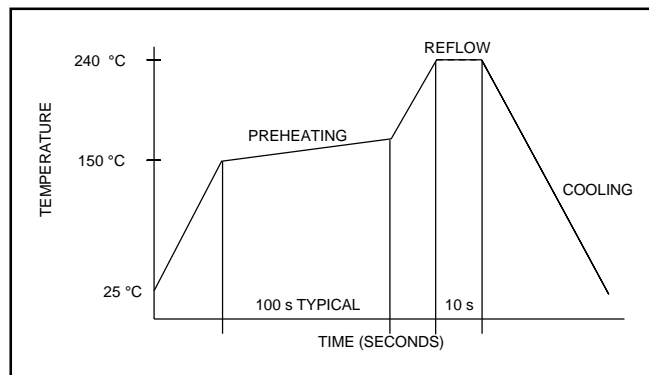
FREQUENCY RANGE	10.00 to 50.00 MHz
FREQUENCY STABILITY VS. OPERATING TEMPERATURE	± 0.1 PPM OVER 0°C TO +60°C ± 0.25 PPM OVER -20°C TO +70°C
FREQUENCY STABILITY VS. AGING	± 0.3 PPM FIRST YEAR AND ± 2.0 PPM OVER 10 YEARS STANDARD
OUTPUT WAVEFORM	CMOS AT NOMINAL LOAD OF 10 K OHM // 15 pF
OUTPUT LEVEL	VOH = 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



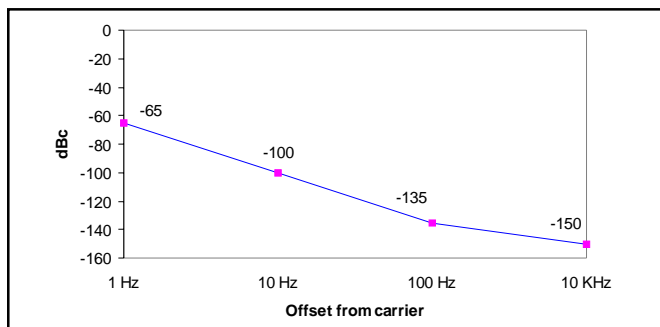
OUTLINE DRAWING



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
OX	9: CMOS	1: AT CUT	50	RALTRON ASSIGNED	LX: 0° C TO +60° C HZ: -20° C TO +70° C	10: 0.1 PPM 25: 0.25 PPM	IN MHz

EXAMPLE: OX9150A-LX-10-10.000