RALTRON

OVEN CONTROLLED CRYSTAL OSCILLATOR

SERIES OX5100

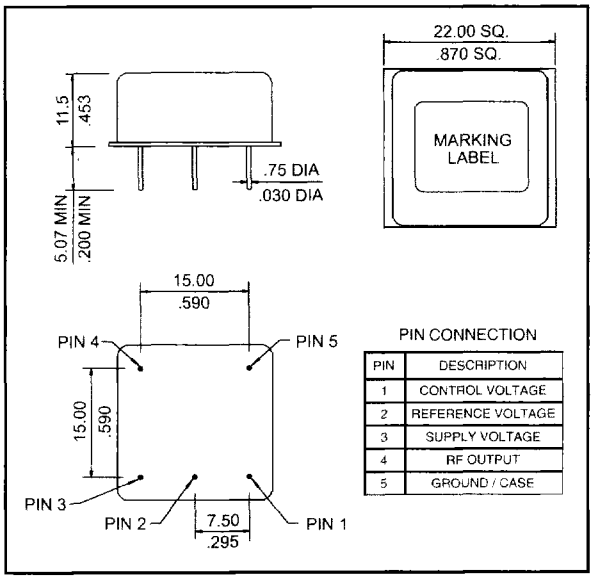
● FEATURES

- ULTRA SMALL PACKAGE
- STABILITY TO ± 0.25 PPM
- CMOS OUTPUT

● 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 (OTHER STABILITIES AVAILABLE)
FREQUENCY STABILITY VS. AGING	±0.3 PPM FIRST YEAR AND ±2.0 PPM OVER 10 YEARS STANDARD
OUTPUT	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 ±10% VARIATION
SUPPLY VOLTAGE	+5.0 VDC ±5%
FREQUENCY STABILITY VS. SUPPLY VARIATION	±0.01 PPM FOR ±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

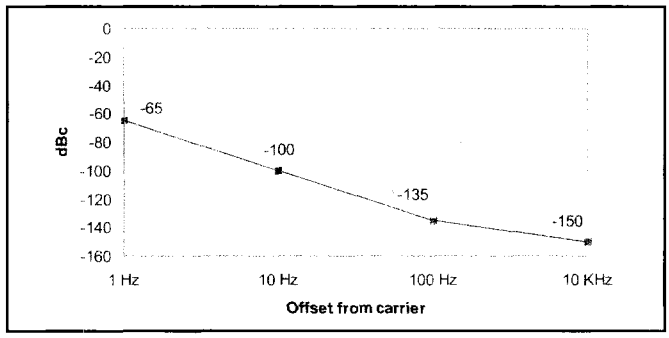
● OUTLINE DRAWING



PIN CONNECTION

PIN	DESCRIPTION
1	CONTROL VOLTAGE
2	REFERENCE VOLTAGE
3	SUPPLY VOLTAGE
4	RF OUTPUT
5	GROUND / CASE

● PHASE NOISE CHARACTERISTICS



● PART NUMBERING SYSTEM

TYPE	OUTPUT TYPE	CRYSTAL CUT	PACKAGE TYPE	REVISION LEVEL		TEMPERATURE RANGE		FREQUENCY STABILITY		FREQUENCY
OX	9: CMOS	1: AT CUT	51	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: OX9151A-HZ-25-10.000

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