SERIES OX9400



FEATURES

- STABILITY TO ± 0.01 PPM
- LOW AGING CHARACTERISTICS
- LOW PHASE NOISE

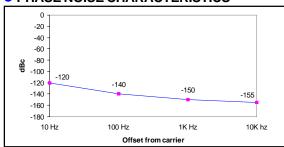
SPECIFICATIONS

FREQUENCY RANGE	5.00 MHz TO 100.00 MHz				
FREQUENCY STABILITY VS. OPERATING TEMPERATURE	±0.1 PPM OVER -20°C TO +70°C (AT-CUT) TYPICAL ±0.02 PPM OVER -20°C TO +70°C (SC-CUT) TYPICAL (OTHER STABILITIES TEMPERATURE ARE AVAILABLE)				
FREQUENCY STABILITY VS. AGING	±1.0 PPB PER DAY AND ±0.1 PPM PER YEAR TYPICAL (AT-CUT) ±0.3 PPB PER DAY AND ±0.05 PPM PER YEAR TYPICAL (SC-CUT)				
OUTPUT WAVEFORM	SEE TABLE 1				
LOAD	SEE TABLE 1				
FREQUENCY STABILITY VS. LOAD VARIATION	±0.02 PPM FOR ±10% VARIATION (AT-CUT) ±0.01 PPM FOR ±10% VARIATION (SC-CUT)				
SUPPLY VOLTAGE	+12.0 VDC ± 5% (VCC) OR +5.0 VDC ± 5% (VDD) (-5.2 VDC FOR ECL)				
FREQUENCY STABILITY VS. SUPPLY VARIATION	±.01 PPM FOR ± 5% VARIATION (AT-CUT) ±0.05 PPM FOR ± 5% VARIATION (SC-CUT)				
POWER CONSUMPTION	5.0 WATTS MAX FOR WARM-UP 2.0 WATTS MAX AT STEADY STATE				
FREQUENCY ADJUSTMENT RANGE	±5.0 PPM TYPICAL (AT-CUT) ±1.0 PPM TYPICAL (SC-CUT)				
CONTROL VOLTAGE RANGE	0 TO 6.0 +VDC				
SLOPE	POSITIVE				
LINEARITY	±10%				
STORAGE TEMPERATURE RANGE	-40°C TO +85°C				

OUTPUT AND LOAD CHARACTERISTICS

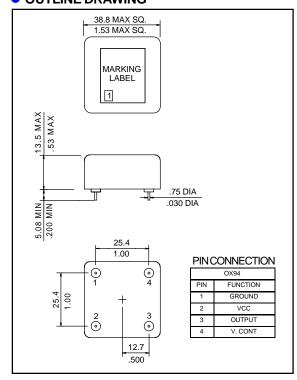
TABLE 1								
OUTPUT TYPE	LOAD	RALTRON CODE						
CLIPPED SINE	10K//20 pF	0						
TTL	3/5/10 GATES	1						
HCMOS	3/5/10 GATES	2						
ACMOS	3/5/10 GATES	3						
100K ECL	50 OHMS	5						
SINEWAVE	50 OHMS	6						
10K ECL	50 OHMS	7						
PECL	50 OHMS	8						
CUSTOM	TBD	9						

PHASE NOISE CHARACTERISTICS



TYPICAL PHASE NOISE FOR HCMOS OUTPUT SINEWAVE OUTPUT IS -5 dBc/Hz BETTER

OUTLINE DRAWING



PART NUMBERING SYSTEM

TYPE	OUTPUT TYPE	CRYSTAL CUT	PACKAGE TYPE	REVISION LEVEL -		TEMPERATURE RANGE		FREQUENCY STABILITY		FREQUENCY
ОХ	TABLE 1 CODE	1: AT CUT 2: SC CUT	94		HZ: -20° C TO +70° C		10: 0.1 PPM 2: 0.02 PPM	-	IN MHz	

EXAMPLE: OX1294A-HZ-10-50.000