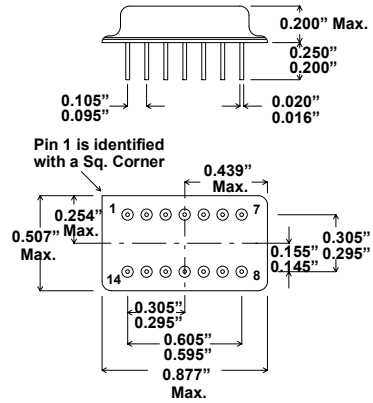
X300A SERIES (ECL)

STANDARD SPECIFICATIONS

FREQUENCY RANGE	10 MHz to 240 MHz
FREQUENCY ACCURACY @ + 25 °C	± 0.0015% (± 15 PPM)
FREQUECY STABILITY Vs. TEMPERATURE	See Options Below
OPERATING TEMPERATURE RANGE	See Options Below
INPUT VOLTAGE (See Note Below)	- 4.5 VDC ± 5%
INPUT CURRENT @ - 4.5 VDC	50 mA Max.
OUTPUT	100K Compatible
LOAD	100 Ω to - 2.0 VDC
SYMMETRY	60/40% @ 50% Level
RISE & FALL TIMES (10% to 90% Level)	2 nS Max.
START-UP TIME	15 mS Max.
FREQUENCY STABILITY Vs. VOLTAGE	± 0.0002% (± 2 PPM) Max. (for 5% change in Voltage)
AGING @ +25 °C	± 0.0005% (± 5 PPM) / year Max.
PACKAGE, SEAL & LEAD FINISH	Conforms with the Requirements of MIL-PRF-55310



Pin Connections

14	GND/CASE
7	-4.5 VDC
8	OUTPUT
9	ENABLE/DISABLE (Option)
All Others	N/C

NOTE: For PECL applications, Xsis 300 Series ECL oscillators can be operated with +5 VDC ± 10% on Pin 14 and power supply return on Pin 7. The output logic levels will still be referenced to +5 VDC and the case will be at +5 VDC, however, 0.8 V peak to peak output signal can be AC or DC coupled as necessary.

Contact Xsis Engineering for special requirements such as, Output Symmetry, Start-up Time, Frequency Accuracy, Complementary Outputs, Multiple Outputs, etc.

ORDERING INFORMATION (Select from options below) :

X | 3 | [ ] | [ ] | A | [ ] | – | [ ] | – FREQUENCY

Frequency Stability

1 = ± 0.1%
2 = ± 0.05%
3 = ± 0.01%
4 = ± 0.005%
5 = ± 0.002% *

* Option 5 not available for - 55 °C to +125 °C

Operating Temperature Range

1 = 0 °C to + 70 °C
2 = - 30 °C to + 85 °C
3 = - 55 °C to +125 °C

Add Suffix " G " for Enable/Disable Option **

** **Enable/Disable** Input is on Pin 9. A "low" level at the input enables the output.

Add Suffix " 883B " for Mil-Screened Option

EXAMPLE: X343A - 883B - 24.000 MHz = 14 Pin Package, 10oK ECL, ± 0.005% over -55 °C to +125 °C, Mil-Screened , and 24.000 MHz

Xsis Electronics, Inc. 12620 W. 63rd St., Shawnee, KS 66216 Tel. 913-631-0448 Fax. 913-631-1170 email xsis@xsis.com