



M100 SERIES (TTL)

STANDARD SPECIFICATIONS

(Similar to M55310/08)

FREQUENCY RANGE	60 Hz to 90 MHz
FREQUENCY ACCURACY @ + 25 °C	± 0.0015% (± 15 PPM)
FREQUENCY STABILITY Vs. TEMPERATURE	See Options Below
OPERATING TEMPERATURE RANGE	See Options Below
INPUT VOLTAGE	+ 5 VDC ± 10%

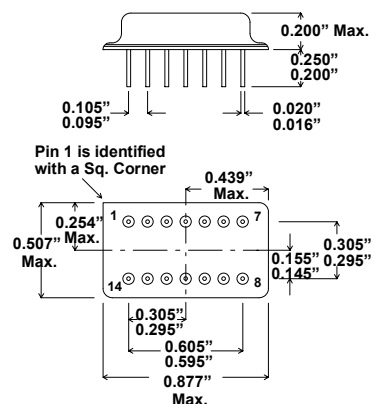
INPUT CURRENT @ +5.0 VDC	
60.0 Hz to 100.0 KHz	90 mA Max.
100.1 KHz to 400.0 KHz	80 mA Max.
400.1 KHz to 3.0 MHz	60 mA Max.
3.1 MHz to 6.0 MHz	40 mA Max.
6.1 MHz to 20.0 MHz	30 mA Max.
20.1 MHz to 40.0 MHz	50 mA Max.
40.1 MHz to 90.0 MHz	60 mA Max.

OUTPUT	TTL (10 Loads)
SYMMETRY	60/40% @ 1.4 VDC Level
RISE & FALL TIMES (0.6 VDC to 2.2 VDC)	
≤ 20 MHz	15 nS Max.
> 20 MHz	5 nS Max.
START-UP TIME	
< 10 MHz	20 mS Max.
≥ 10 MHz	15 mS Max.

FREQUENCY STABILITY Vs. VOLTAGE ± 0.0005% (± 5 PPM) Max. for 10% change in Voltage

AGING @ +25 °C ± 0.0005% (± 5 PPM) / year Max.

PACKAGE, SEAL & LEAD FINISH Conforms with the Requirements of MIL-PRF-55310

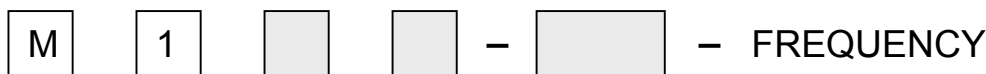


Pin Connections

1	OUTPUT
2	CASE
8	GND
14	B+
All Others	N/C

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) :



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

Add Suffix "883B" for Mil-Screened Option

Operating Temperature Range

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

EXAMPLE: M143 - 883B - 20.000 MHz = 14 Pin Package with "M" Pinout, TTL, ± 0.005% over -55 °C to +125 °C, Mil-Screened, and 20.000 MHz