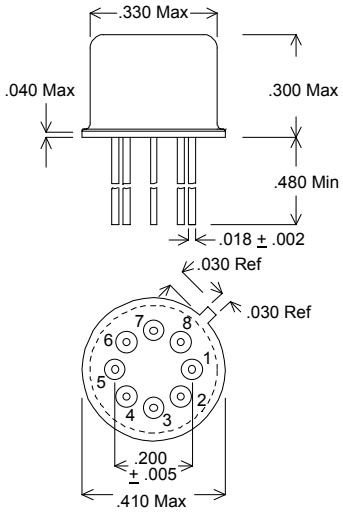
05/10

XE20-100 SERIES (TTL), 5.0 VDC

STANDARD SPECIFICATIONS

(Similar to M55310/09)

Frequency Range	400 KHz to 100 MHz
Frequency Accuracy @ + 25 °C	± 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	
400 KHz to 5.0 MHz	10 mA Max.
5.1 MHz to 20.0 MHz	20 mA Max.
20.1 MHz to 40.0 MHz	30 mA Max.
40.1 MHz to 60.0 MHz	40 mA Max.
60.1 MHz to 100.0 MHz	60 mA Max.
Output	TTL (10 Loads)
Symmetry	
≤ 9 MHz	55/45% Max
> 9 MHz	60/40% Max.
Rise & Fall Times (0.6 VDC to 2.2 VDC)	
≤ 20 MHz	10 nS Max.
> 20 MHz	5 nS Max.
Enable/Disable	See Options Below
Start-Up Time	5 mS Max.
Phase Jitter (10 KHz to 20 MHz Integrated)	0.15 pS rms Typical
Frquency Stability Vs. 10% change in Voltage	± 4 PPM Max.
Aging @ +25 °C	± 3 PPM Max. first year, ± 2 PPM Max./ Yr. thereafter
Package, Seal & Lead Finish	Conforms to the Requirements of MIL-PRF-55310



Pin #	Function
3	E/D (Optional)
4	GND/CASE
5	OUTPUT
8	B+
All Others	N/C

Inches		mm	
.480	-	12.19	-
-	.410	-	10.40
-	.330	-	8.38
-	.300	-	7.62
.195	.205	4.95	5.21
-	.040	-	1.02
-	.030	-	.76
.016	.020	.407	.508

Contact Xsis Engineering for any other special requirements.

ORDERING INFORMATION (Select from options below) :

XE20 – 1 [ ] [ ] [ ] – [ ] – FREQUENCY

Frequency Stability

1 = ± 0.1%
2 = ± 0.05%
3 = ± 100 PPM
4 = ± 50 PPM
5 = ± 20 PPM*
6 = ± 10 PPM*

*Options 5 and 6 are not available for all operating temperature range options

Operating Temperature Range

1 = 0 °C to + 70 °C
2 = - 40 °C to + 85 °C
3 = - 55 °C to +125 °C
4 = - 55 °C to +105 °C
5 = - 40 °C to + 95 °C
6 = - 20 °C to + 70 °C

G = Enable/Disable, Leave Blank Otherwise

883B = Mil-Screening, Leave Blank Otherwise.

Enable/Disable Input: A "low" level at the input disables the output to a HI-Z state. Enable/disable input has internal pull-up.

EXAMPLE: XE20 – 143G – 883B - 24.000 MHz = TTL Output, with Enable/ Disable Option, ± 50 PPM over -55 °C to +125 °C, Mil - Screened , 24.000 MHz