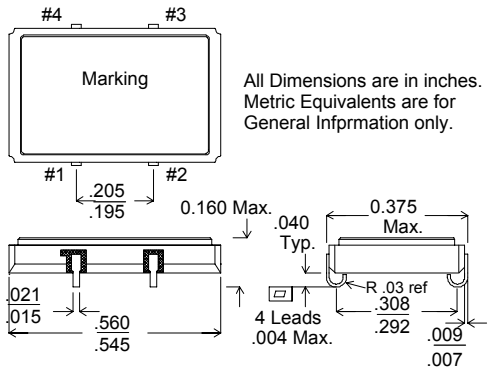
XE30 - 200A SERIES (HC/ACMOS), 5.0 VDC SURFACE MOUNT "J" LEAD PACKAGE

(Similar to M55310/27)

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	HC/ACMOS
Load	10 KΩ in parallel with 15 pf
Symmetry: @ 50% Output Level	
< 30 MHz	55/45% Max
≥ 30 MHz	60/40% Max.
Rise & Fall Times (10% to 90% Level)	
< 30 MHz	6 nS Max.
≥ 30 MHz	3 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



All Dimensions are in inches. Metric Equivalents are for General Infprmation only.

Pad #	Function
1	E/D (Optional)
2	GND/CASE
3	OUTPUT
4	V_{DD}

Inches		mm	
.545	.560	13.85	14.22
-	.375	-	9.53
.292	.308	7.42	7.82
.195	.205	4.95	5.21
-	.160	-	4.06
-	.040	-	1.02
.015	.021	.38	.53
.007	.009	.18	.23
-	.004	-	.10

Contact Xsis Engineering for any other special requirements.

ORDERING INFORMATION (Select from options below) :

XE30 – 2 [ ] [ ] A [ ] – [ ] – 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

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

883B = Mil-Screening, Leave Blank Otherwise.

EXAMPLE: XE30–243AG–883B - 24.000 MHz = HC/ACMOS Output, with Enable/ Disable Option, ± 50 PPM over -55 °C to +125 °C, Mil - Screened , 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