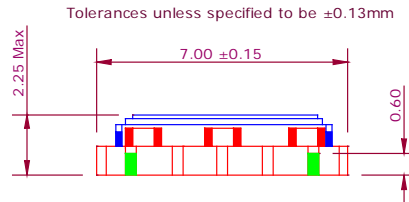


Provisional Oscillator Specification: E6035LF

Issue A, 6th August 2012

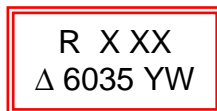
Outline:

Pad	Function
1	Control Voltage, Vc
2	GND
3	Output
4	Supply Voltage, Vs

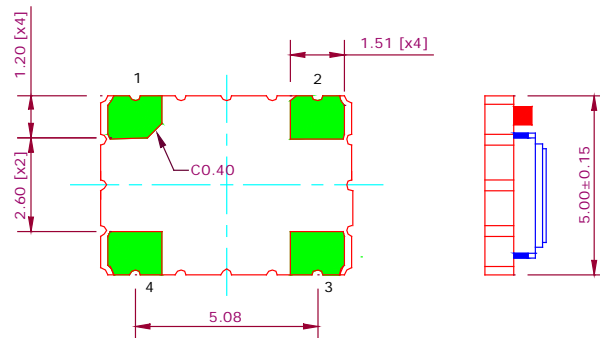


Marking: to include:

- Manufacturers ID (R)
- Manufacturing identifier (X XX)
- Pad 1 / Static Sensitivity Identifier (Δ)
- Abbreviated Part Number (6035)
- Oscillator's Date of Manufacture (YW)



Note sample marking may vary.



Electrical:

Nominal Frequency, Fo	19.2 MHz
Supply Voltage, Vs	3.3 V \pm 5%
Input Current	\leq 2.5 mA
Output:	
Type	Clipped Sinewave, AC coupled
Load	10k Ω // 10 pF
Level	\geq 0.8V pk-pk
Frequency Stability	
Temperature, -40 to 85°C	$\leq \pm 0.14$ ppm reference $(F_{MAX}+F_{MIN})/2$
Calibration Tolerance at 25°C, Vc=1.65V	$\leq \pm 1.0$ ppm reference Fo
Supply Voltage, \pm 5%	$\leq \pm 0.1$ ppm reference to frequency at 3.3V
Load, \pm 10%	$\leq \pm 0.1$ ppm reference to freq. at 10k Ω // 10 pF
Reflow soldering (after 2 times reflow)	$\leq \pm 1.5$ ppm
Ageing, 10 years	$\leq \pm 3.0$ ppm
Drift (at constant temperature)	$\leq \pm 0.04$ ppm / day
All causes stability, 20 years	$\leq \pm 4.6$ ppm
Voltage Control:	
Nominal control voltage	1.65V
Control Voltage Range	0V to 3.3V
Slope	Positive
Input impedance	\geq 100 k Ω
Pulling range	$\geq \pm 5.0$ ppm, $\leq \pm 15.0$ ppm
Linearity	\leq 10%
Modulation bandwidth	\geq 2kHz

Provisional Oscillator Specification: E6035LF

Issue A, 6th August 2012

Phase Noise (typ.)

10 Hz	-95 dBc/Hz
100 Hz	-115 dBc/Hz
1 kHz	-132 dBc/Hz
10 kHz	-140 dBc/Hz
100 kHz	-142 dBc/Hz

Environmental:

Operable temperature range: -40 to 85°C

Storage Temperature Range: -55 to 125°C

Vibration: IEC 60068-2-6 Test Fc, 10-60Hz 1.5mm displacement, at 98.1 ms⁻²,
30 minutes in each of three mutually perpendicular axes at 1 octave per minute

Shock: IEC 60068-2-27 Test Ea, 980ms⁻² acceleration for 6ms duration, 3 shocks in each
direction along three mutually perpendicular axes

Soldering: SMD product suitable for Convection Reflow soldering.
Peak temperature 260°C. Maximum time above 220°C, 60 secs.

Solderability: MIL-STD-202, Method 208, Category 3

Marking: Laser Marked

RoHS: Parts are fully compliant with the European Union directive 2002/95/EC on the restriction
of the use of certain hazardous substances in electrical and electronic equipment. Note
the RoHS compliant parts are suitable for assembly using both Lead-free solders and Tin
/ Lead solders.