



GENERAL OSCILLATOR SPECIFICATION : O14

Parameter		Supply Voltage ^{*1} (± 10 %)						Units
		5.0	3.3	3.0	2.8	2.5	1.8	V
Frequency Range ^{*1}		1.000 000 to 166.000 000						MHz
Frequency Stability ^{*1}	All Causes (Maximum) ^{*2}	± 25, ± 30, ± 50, ± 100						ppm
	Aging (Maximum per year at + 25 °C) ^{*3}	± 5						ppm
Temperature Range ^{*1}	Operating	- 20 to + 70 (- 40 to + 85 option)						°C
	Storage	- 55 to + 125						°C
Supply Current (Maximum)	1.000 000 to 23.999 999 MHz	20	15	15	12	15	10	mA
	24.000 000 to 49.999 999 MHz	30	20	20	15	20	12	mA
	50.000 000 to 69.999 999 MHz	40	30	30	20	30	15	mA
	70.000 000 to 166.000 000 MHz	60	45	45	30	45	25	mA
Waveform		Squarewave						
Output		HCMOS / TTL compatible						
Load (Maximum)		15 pF / 5 TTL gates						
Mark Space Ratio (at 50 % V _{CC})		40 : 60 % (45 : 55 % option)						
Rise / Fall Times (Maximum)	Rise Time (10 % to 90 % V _{CC})	10	8	8	7	7	6	ns
	Fall Time (90 % to 10 % V _{CC})	10	8	8	7	7	6	ns
Start up Time (Maximum)		10						ms
Logic Levels	High (Minimum)	90 %						V _{CC}
	Low (Maximum)	10 %						V _{CC}
Pin 1 (Tri-State) (option)	High (see below) or Open	Enable						
	Low (see below) ^{*4}	Disable						
	High value (Minimum)	44	70	70	70	70	70	% V _{CC}
	Low value (Maximum) ^{*4}	16	20	20	20	20	20	% V _{CC}
	Disable Current (Maximum) ^{*4}	50	10	10	10	10	10	µA
	Enable Delay Time (Maximum)	10						ms
Disable Delay Time (Maximum)		100	150	150	150	150	150	ns

Package Style : 20.40 x 12.80 x 5.31 mm.

Marking

See mechanical drawing.

Notes

- *1 Not all Frequency / Temperature / Voltage combinations are available.
- *2 Inclusive of calibration at + 25 °C, operating temperature range, input voltage variation, load variation, aging, shock, and vibration.
- *3 Even though aging is specified in 'All Causes', see ^{*2} this is a refinement to the 'All Causes' parameter.
- *4 Internal crystal oscillation halted.

Terminals to be Au.

All product supplied in anti-static packaging.

All product is supplied RoHS and REACH compliant.

Product can be supplied on Tape and Reel, on reels of 1,000 units.

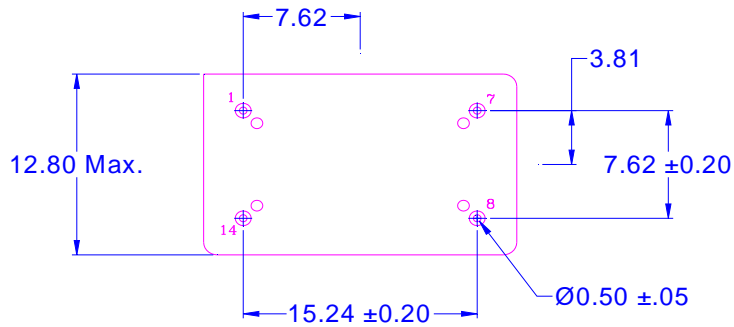
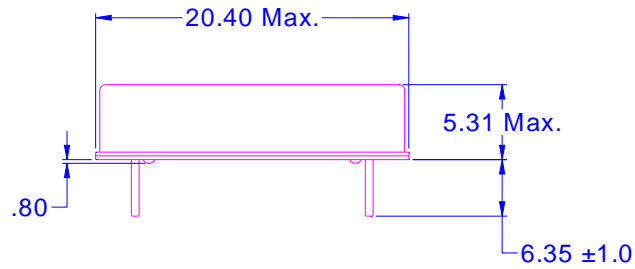
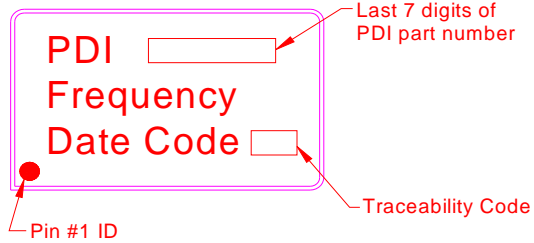
Specifications subject to change without notice, last updated 23rd May 2011.



GENERAL OSCILLATOR SPECIFICATION : O14



Package Drawing



Pin Connections

- 1 Tri-State or Not Connected
- 7 Ground / Case
- 8 Output
- 14 Supply Voltage

All Dimensions and Tolerances are in mm



GENERAL OSCILLATOR SPECIFICATION : O14



Reflow Solder Profile

