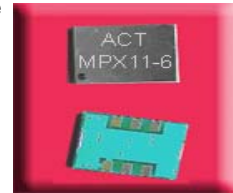


Compatible with Eu Directive
 2002/EC - RoHS

ACTMPX11-6 LVPECL Saw Oscillator

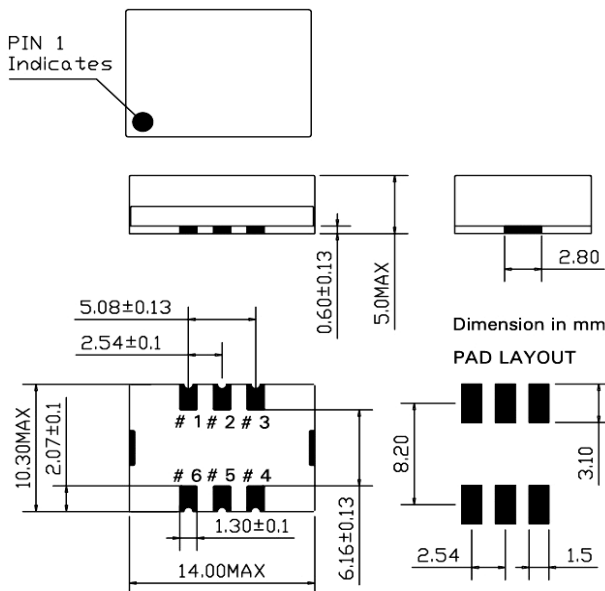
The ACT MPX11-6 is a PCB Based, SMD, LVPECL Saw oscillator. This 14 x10.3mm device can be used in a wide range of applications, especially where a high fundamental frequency with low phase noise and jitter are required. This device is offered in a range of standard, frequencies from 311.04~625.0 MHz, common to communications applications.(SONET / SDH etc..) The devices are available reeled (500 pcs) or loose to suit high/low volume requirements.



Specification

Parameter	Symbol	Specification	Condition
Supply Voltage	VDD	3.3VDC ± 10%	
Frequency Range	fo	311.040 MHz, 312.500 MHz, 400.00MHz, 622.080MHz, 625.00MHz	Please specify
Frequency Stability	$\Delta f/fo$	±25ppm ~ ±50ppm	Please specify
Temp Operating Range	Topr	0 ~ +70°C Std (-40 ~ +85°C available)	Please specify
Temp Storage Range	Tstg	-55 to +125°C	
Supply Current (max)	Iop	130mA max	
Duty Cycle	Tw/t	45/55%	
Output Level '0'	VOL	VDD-1.620Vdcmax	
Output Level '1'	VOH	VDD -1.025Vdc min	
Rise & Fall Time (max)	TrTf	800pS max	
Output Load	N/CL	VDD-2.0Vdc to 50 ohm	
Jitter		1.0pS max	12kHz to 20MHz
Aging	Fa	±3ppm / year	@25°C
Phase Noise		-65dBc/Hz	@ 10Hz
		-98dBc/Hz	@ 100Hz
		-125dBc/Hz	@ 1kHz
		-130dBc/Hz	@ 10kHz
		-135dBc/Hz	@ 100kHz

Dimensions (mm)



Pin Connection	
#1	Tri-state
#2	N/C
#3	Ground
#4	Output
#5	Complementary Output
#6	Vdd

Pad surface material Au

Please note that all parameters can not necessarily be specified in the same device

Customer to specify : Frequency, Frequency Stability, Operating Temperature Range,

In line with our ongoing policy of product evolution and improvement, the above specification may be subject to change without notice

ISO9001:2000 Registered

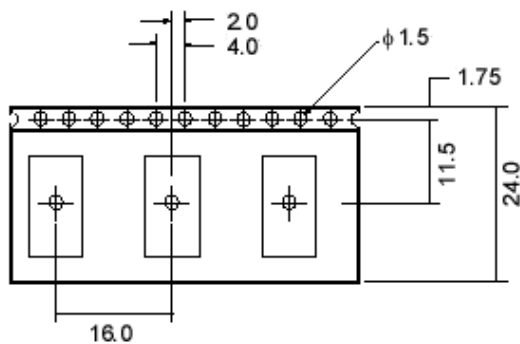
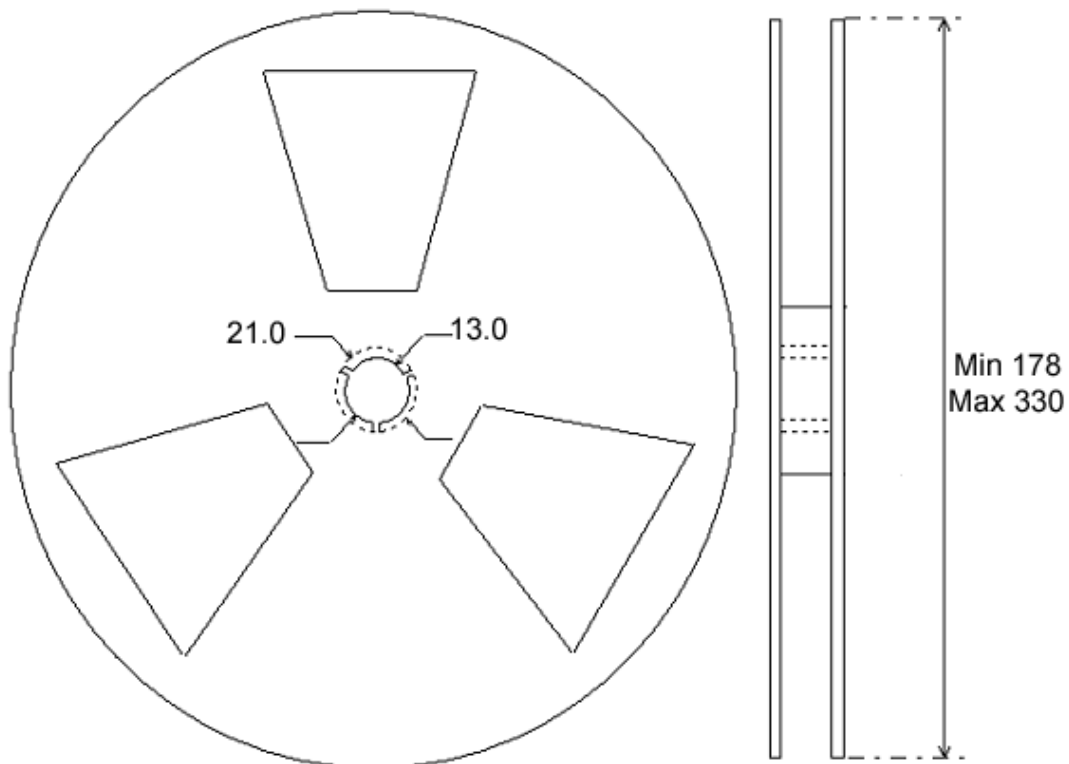
For quotations or further information please contact us at:

3 The Business Centre, Molly Millars Lane, Wokingham, Berkshire, RG41 2EY, UK

<http://www.actcrystals.com>

ACTMPX11-6 TAPE AND REEL DIMENSIONS (mm)

Reel size = 500 pcs



In line with our ongoing policy of product evolution and improvement, the above specification may be subject to change without notice

ISO9001:2000 Registered

For quotations or further information please contact us at:

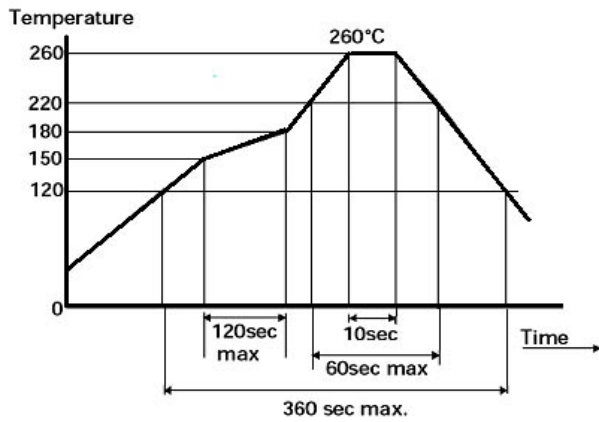
3 The Business Centre, Molly Millars Lane, Wokingham, Berkshire, RG41 2EY, UK

<http://www.actcrystals.com>

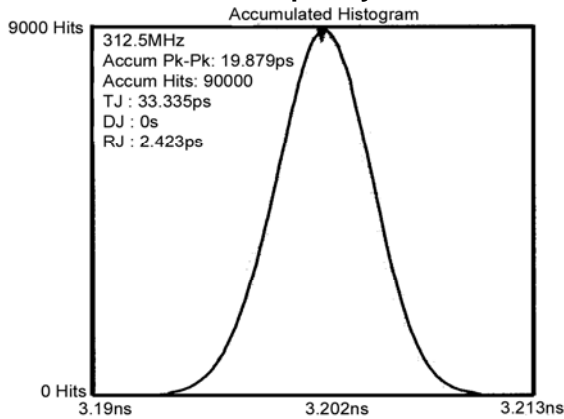
Issue: 1 D2

Date: 26/07/05

ACTMPX11-6 MAXIMUM REFLOW PROFILE



Jitter for centre frequency 312.5MHz



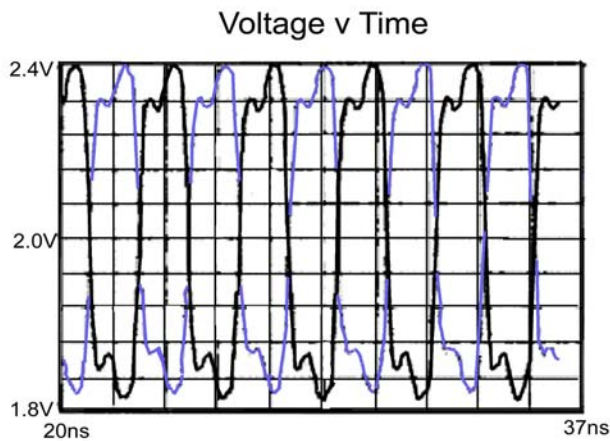
High Frequency Modulation Summary

	Mean	Min	Max	Pk-Pk
1-Sigma	1.673ps	0.885ps	2.358ps	1.473ps
Pk-Pk	6.477ps	4.547ps	10.004ps	5.457ps

	PJ	Freq	RJ
1-clock(peak)	270.056s	19639296MHz	151.489fs
N-Clock(Pk-Pk)	1.686ps	472.553993kHz	0.536ps

V1	V2
-0.001953V	-0.001953V

Wave Form 312.5MHz Centre Frequency



Time measurements

Period	3.201642ns
Minimum	3195109ns
Maximum	3.208157ns
1 sigma	2.467ps
Peak to Peak	13.049ps
Hits	300
Frequency	312.50112342MHz
Duty Cycle	49.41%

DC Voltages

Vstart	-0.001953V
Vstop	-0.001953V
Vp-p	1.441406V
Vmax	0.71875V
Vmin	-0.722656V

In line with our ongoing policy of product evolution and improvement, the above specification may be subject to change without notice

ISO9001:2000 Registered

For quotations or further information please contact us at:

3 The Business Centre, Molly Millars Lane, Wokingham, Berkshire, RG41 2EY, UK

<http://www.actcrystals.com>