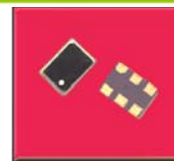


Compatible with Eu Directive
 2002/EC - RoHS



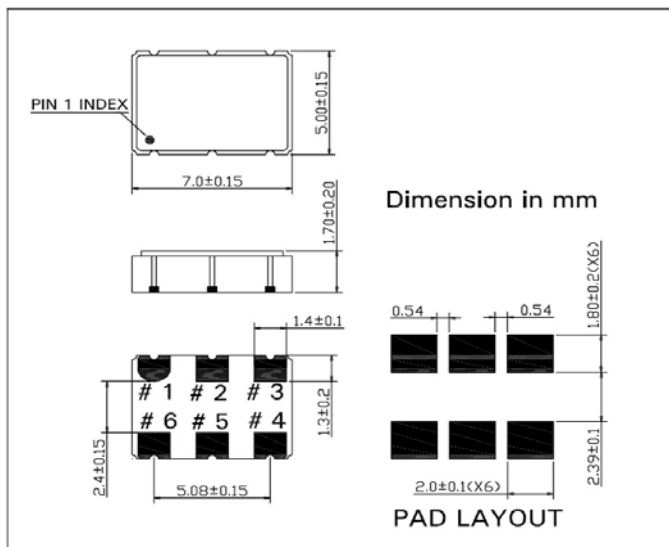
ACT9212 LVPECL / LVDS OSCILLATOR

The ACT9212 PECL / LVDS Oscillator is a miniature low profile device allowing for frequencies from 181.0 to 650.0 MHz to be available in a 7X5 mm Surface Mount Device.

This device is suitable for a wide range of applications where board space dictates small size and / or automatic assembly is a requirement. It is suitable for design into many applications including Communications Equipment, Networking and many more.

Specification

Parameter	Symbol	Specification	Condition
Frequency Range	fo	181.0 ~ 650.00 MHz (PLL)	Please specify
Frequency Stability	Df/fo	Please refer to Table 1	Please specify
Temp Operating Range	Topr	0 ~ +70°C Std, -40 ~ +85°C also available	Please specify
Temp Storage Range	Tstg	-55 to +125°C	
Supply Voltage	Vdd	2.5VDC & 3.3VDC ± 5%	Please specify
Supply Current (max)	Iop	70mA Up to 320.0 MHz 90mA 321.0 ~650.0 MHz 65mA 181.0~ 650.0 MHz 80mA Up to 320.0 MHz 100mA 321.0 ~650.0 MHz 65mA 181.0 ~ 650.0 MHz	2v5VDC LVPECL 2v5VDC LVPECL 2v5VDC LVDS 3.3VDC LVPECL 3.3VDC LVPECL 3.3VDC LVDS
Duty Cycle	Tw/t	40 / 60% Std	VDD -1.30VDC - LVPECL 1.25VDC - LVDS
Output Level '0'	VOL	VDD -1.63VDC max (LVPECL) 1.125VDC max (LVDS)	
Output Level '1'	VOH	VDD -1.02VDC min (LVPECL) 1.375VDC min (LVDS)	
Rise & Fall Time (max)	Tr/Tf	0.6nS Typical	@ 20/80%
Output Load	N/CL	50Ω into VDD -2.0V (LVPECL) 100Ω differential Load (LVDS)	
Start-up Time	Tosc	10mS max	
Aging	Fa	±3ppm / year max	
Reflow		See reflow profile (Page 2)	
Jitter	Tj	5pS RMS max	



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

Pad surface material
 AU

Table 1 Frequency Stability v (Temperature, Aging, Vdd±5% Load change, & Adjustment at 25°C)

	+/-20ppm	+/-25ppm	+/-30ppm	+/-50ppm	+/-100ppm
-10 ~ +70°C	★	★	★	Standard	★
-20~+70°C	★	★	★	★	★
-40 ~ +85°C			★	★	★

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

Customer to specify :Frequency, Frequency Stability, Operating Temperature Range, Output enable, Voltage, Duty Cycle & Output typ
 In line with our ongoing policy of product evolution and improvement, the above specification is subject to change without notice.

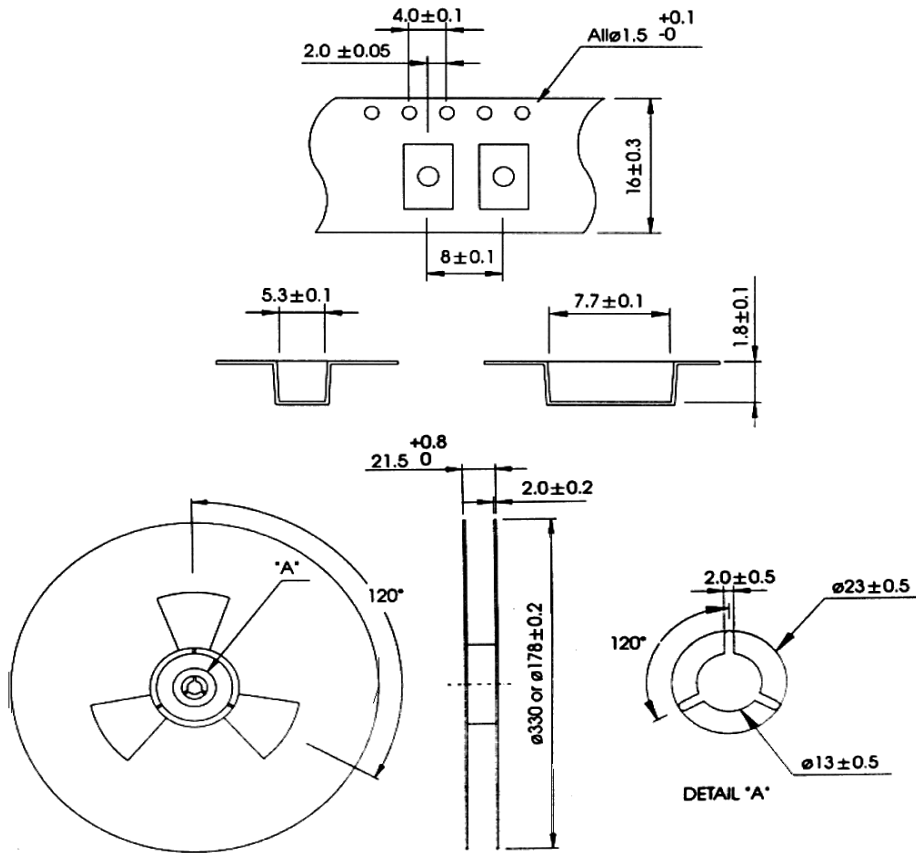
ISO9001:2000 Registered

For quotations or further information please contact us at:
 3 The Business Centre, Molly Millars Lane, Wokingham, Berks, RG41 2EY, UK

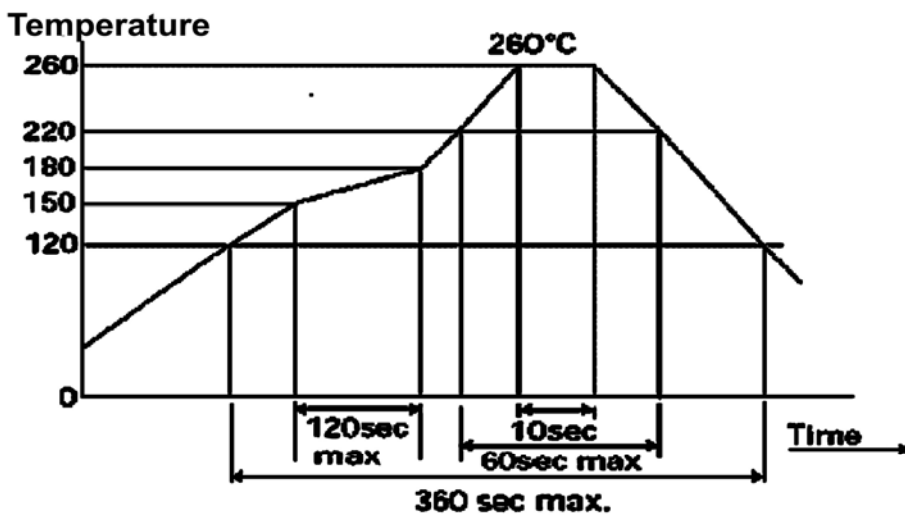
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Issue :2 D2
 Date : 9/11/05

ACT9212
TAPE AND REEL DIMENSIONS (mm)
REELS OF 1KPCS



Recommended Reflow soldering Condition



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