

Tel: 0044 (0) 118 979 1238 Fax: 0044 (0) 118 979 1283 email: info@actcrystals.com

#### **ACT9214 LVDS OSCILLATOR**

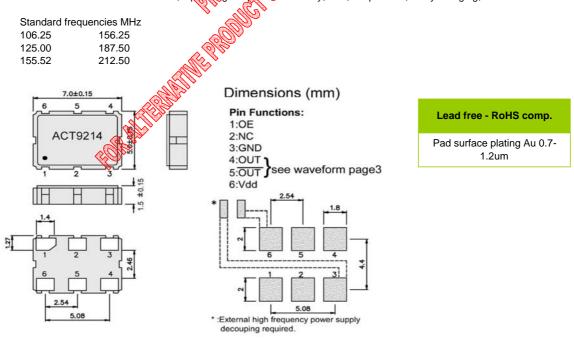
The ACT9214 LVDS Oscillator is a miniature low profile device allowing for frequencies up to 350.0MHz to be available in a 7X5 mm SMD package. The metal lid is grounded through the ceramic package and the pads are gold plated. This device is particularly suited to Communications / Networking applications and also to many other applications where a low voltage LVDS output is required. Only 7x5mm this device is particularly popular where board space dictates small size and / or automatic assembly is a requirement. The devices are available loose or taped and reeled to suit both low and higher volume requirements.



#### **Specification**

Parameter	Symbol	Specification	Condition
Frequency Range	fo	40 ~ 350MHz	Please specify
Frequency Stability	$\Delta f/fo$	±20 ~ ±100ppm max *	Please specify
Temp Operating Range	Тор	-20 ~ +70°C Standard	Others wallable please enquire
Temp Storage Range	Tstg	-55 ~ +125°C	
Supply Voltage	Vdd	3.3V (2.375V Min) 2.5V (3.465V max)	Please specify
Supply Current (max)	lop	99mA (85mA typical)	
Duty Cycle	Tw/t	50% ± 10%	25°C
Output Level '0'	VOL	1.1V typical	O. P.
Output Level '1'	VOH	1.43V typical	
Rise & Fall Time (max)	Tr/Tf	2.0ns max	9),
Output Load	N/CL	100Ω	Refer to test circuit on page 3
Start-up Time	Tosc	5ms max	Within ±0.5ppm of fo & power to 90% final amplitude
Aging	Fa	±3.0 ppm/yr max	
Output Enable Function		Pin 1	
Enable Voltage high	Venh	0.7Vdd min	
Enable Voltage low	Venl	0.3Vdd max	
Standby Current	Isb	10μA max	OE low
Phase Jitter	Tj	1.0ps	12kHz to 20MHz

\* Inclusive of 25°C Tolerance, Operating temperature stability, Vdd, Output load, first year aging, shock and vibration



Please note that all parameters can not necessarily be specified in the same device Customer to specify: Frequency, Vdd, Frequency Stability, Operating Temperature Range

In line with our ongoing policy of product evolvement and improvement, the above specification may 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

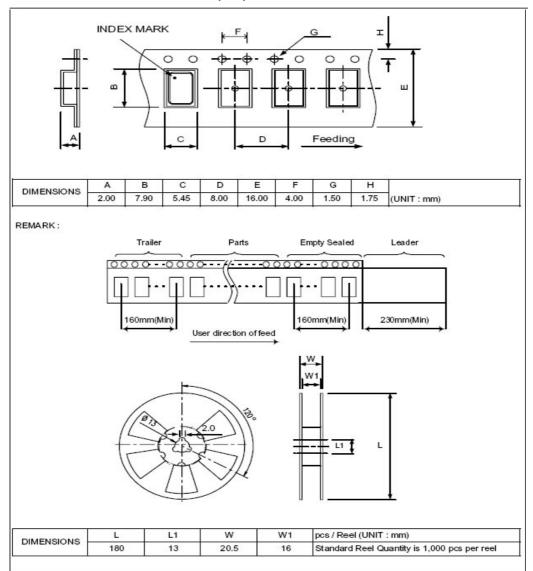
<a href="http://www.actcrystals.com">http://www.actcrystals.com</a>

Issue : 1 T6 Date :16/08/05

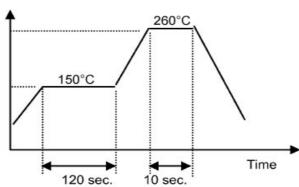


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## **ACT9214 TAPE AND REEL DIMENSIONS (mm)**



# **Maximum Re-flow Conditions**



Total time: 200 sec. Max.

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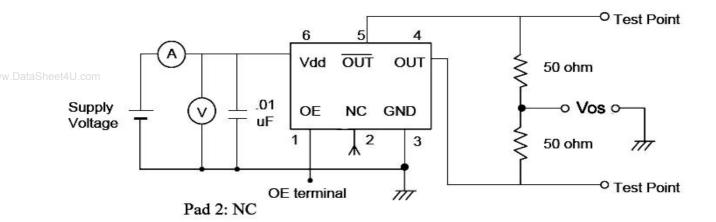
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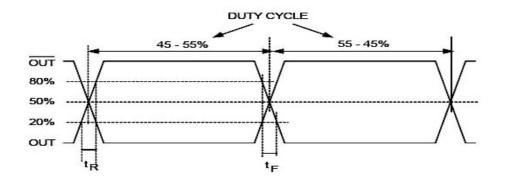
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### **ACT9214 Test Circuit and Waveform**





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