Tel : 0044 (0) 118 979 1238
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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

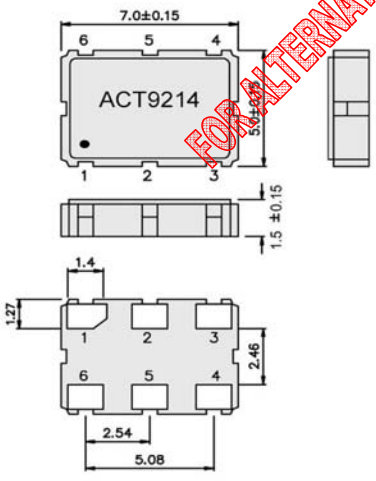
Parameter	Symbol	Specification	Condition
Frequency Range	fo	40 ~ 350MHz	Please specify
Frequency Stability	Δf/fo	±20 ~ ±100ppm max *	Please specify
Temp Operating Range	Top	-20 ~ +70°C Standard	Others available please enquire
Temp Storage Range	Tstg	-55 ~ +125°C	
Supply Voltage	Vdd	3.3V (2.375V Min) 2.5V (3.465V max)	Please specify
Supply Current (max)	Iop	99mA (85mA typical)	
Duty Cycle	Tw/t	50% ± 10%	Ta 25°C
Output Level '0'	VOL	1.1V typical	
Output Level '1'	VOH	1.43V typical	
Rise & Fall Time (max)	Tr/Tf	2.0ns max	
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

PRODUCT WITHDRAWN.
FOR ALTERNATIVE PRODUCT SEE ACT9209/9210/9211 or 9212 SERIES

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

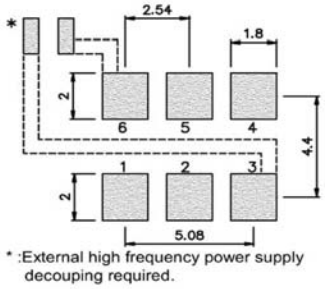
Standard frequencies MHz

106.25	156.25
125.00	187.50
155.52	212.50



Dimensions (mm)

Pin Functions:
1:OE
2:NC
3:GND
4:OUT
5:OUT } see waveform page3
6:Vdd



* :External high frequency power supply decoupling required.

Lead free - RoHS comp.

Pad surface plating Au 0.7-1.2um

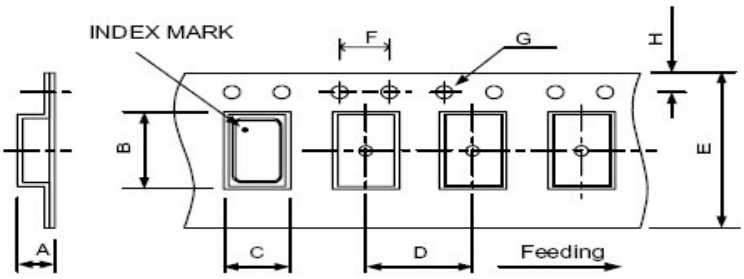
Please note that all parameters can not necessarily be specified in the same device
Customer to specify :Frequency, Vdd, Frequency Stability, Operating Temperature Range
In line with our ongoing policy of product evolvement and improvement, the above specification may subject to change without notice
ISO9001:2000 Registered

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

Issue : 1 T6
Date :16/08/05

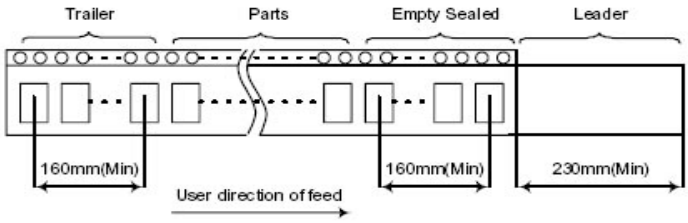
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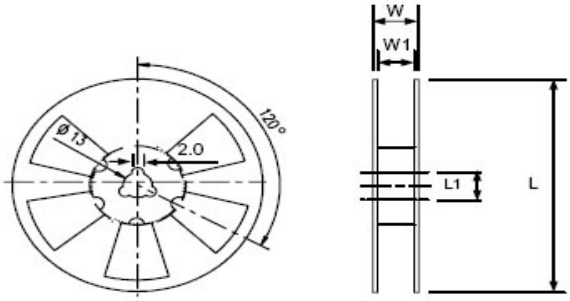
ACT9214 TAPE AND REEL DIMENSIONS (mm)



DIMENSIONS	A	B	C	D	E	F	G	H	
	2.00	7.90	5.45	8.00	16.00	4.00	1.50	1.75	(UNIT : mm)

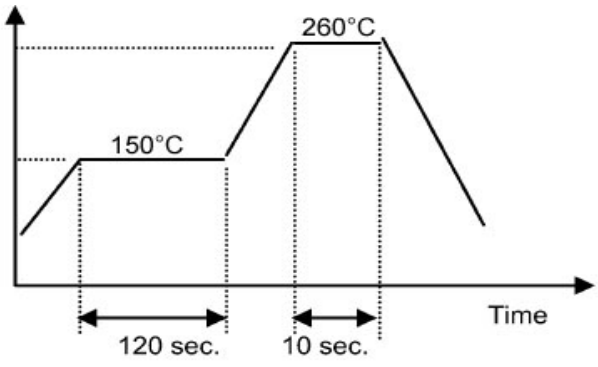
REMARK :





DIMENSIONS	L	L1	W	W1	pcs / Reel (UNIT : mm)
	180	13	20.5	16	Standard Reel Quantity is 1,000 pcs per reel

Maximum Re-flow Conditions



Total time : 200 sec. Max.

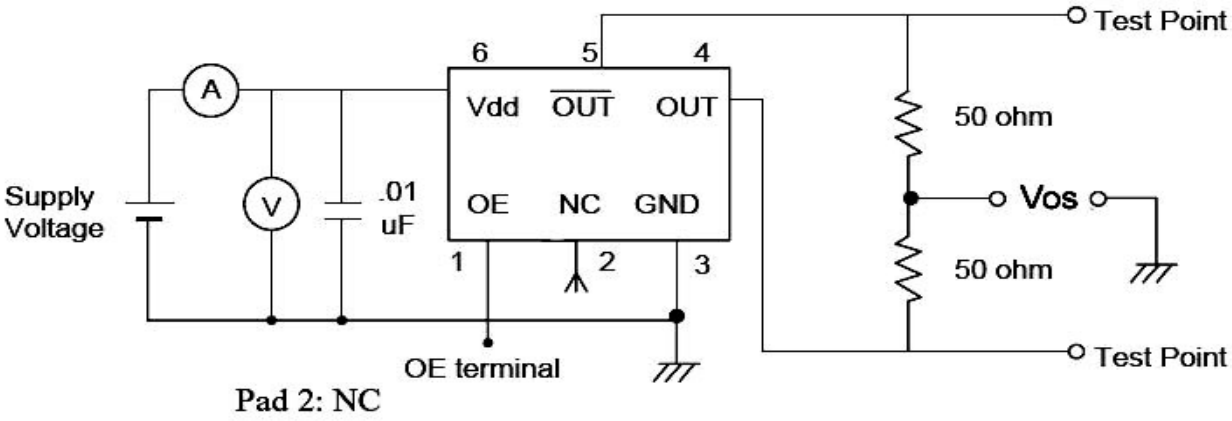
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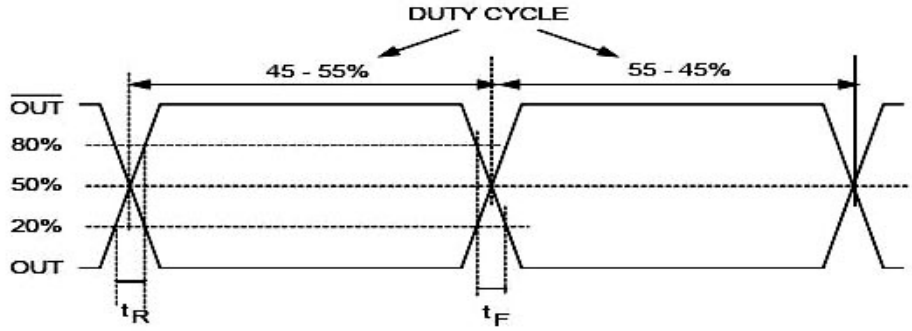
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ACT9214 Test Circuit and Waveform





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