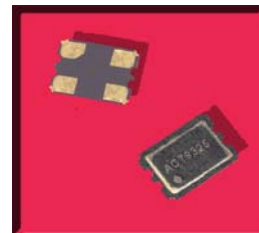


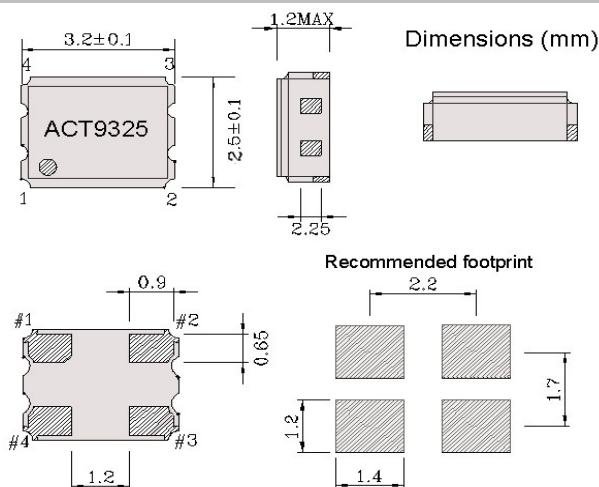
ACT9325

The ACT9325 family is a miniature low profile Surface Mount package clock oscillator, housed in a ceramic package, with a seam welded metal lid for high reliability and long term stability. The metal lid is grounded via the package to assist with EMI emission control. This 3x2.5mm packaged device is available in 1.8 ~ 3.3 volt supply voltages and is suitable for a wide range of applications. Taped and reeled packaging and loose quantities are available for purchase, to suit high and low volume requirements. The pads are gold plated which enables a variety of assembly processes, including wire bonding.



Specification

Parameter	Symbol	Specification		
Frequency Range		1.000 to 50.000MHz		Please specify
Frequency Stability	$\Delta f/f_0$	$\pm 20, \pm 25, \pm 50$ or ± 100 ppm (Inclusive of Operating Temperature Range, Supply Voltage & Load)		Please specify
Operating Temperature Range	T _{opr}	0 ~ +70°C & -40 ~ +85°C		Please specify
Storage Temperature Range	T _{stg}	-55 to +125°C		
Supply Voltage	V _{DD}	1.8V, 2.5V, 3.3V		Please specify
Output		HCMOS		
Duty Cycle	T _w /t	40/60% Std, (Option 45/55%) At 50% of Waveform (HCMOS Load)		Please specify
Supply Current (max) (1.000 to 50.000MHz)	I _{DD}	1.8VDC±10% 10mA max	2.5VDC±10% 15mA max	3.3VDC ±10% 25mA max
Output Level '0'	V _{OL}	10% V _{DD} max (HCMOS)		
Output Level '1'	V _{OH}	90% V _{DD} min (HCMOS)		
Rise & Fall Time (max)	T _r /T _f	10nS max		
Output Load	N/CL	15pF HCMOS Load (Std)		
Start-up Time	T _{osc}	10mS max		
Tri-state Input Voltage		No Connection: Output enabled		
		VIH : ≥0.7 VDD: Output enabled		
		VIL : ≤0.3 VDD: Output disabled (High impedance)		
Aging	F _a	±5 ppm / yr. max @25°C (±3ppm available to custom order)		
Reflow Profile		10 sec @ 260°C max (refer to page 3 for profile)		
Period Jitter (pk~pk)		100pS max		
Period Jitter (One sigma)		25pS max		



Pad finish: Au

APPLICATIONS

- Microprocessor clock
- PDA/Notebook
- Wireless applications
- Ethernet
- Fibre channel
- Instrumentation

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

Customer to Specify : Frequency, Frequency Stability, Operating Temperature Range, Voltage, Duty Cycle

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, Berks, RG41 2EY, UK

<http://www.actcrystals.com>

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ACT9325 continued

Tape and Reel Dimensions (mm)

1K pieces per reel

Materials:

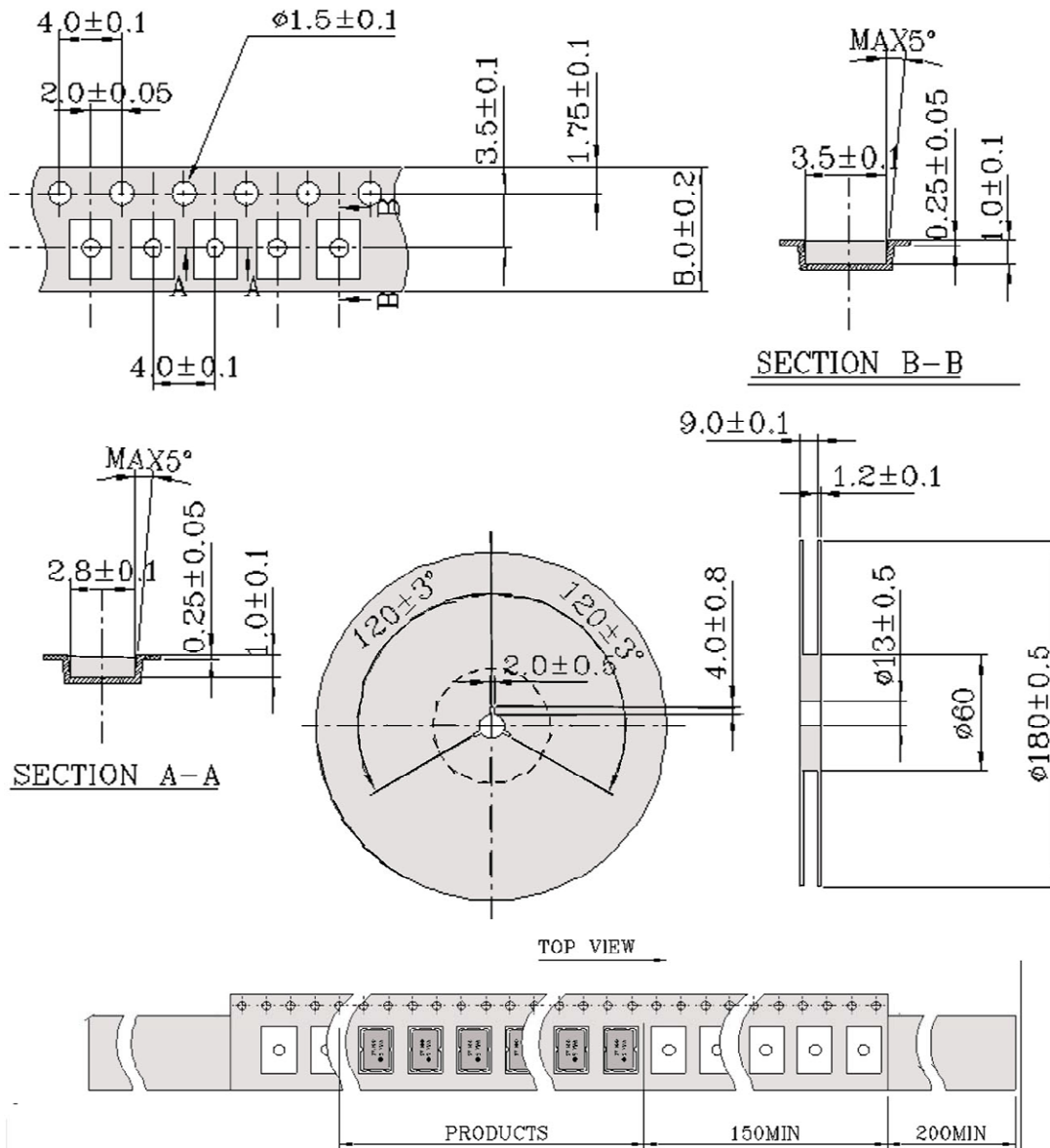
Tape: P.S. Black reference R-0.2

Reel: P.S. White.

Cover tape:

13~14mm (width) x 0.06mm

(Thickness).



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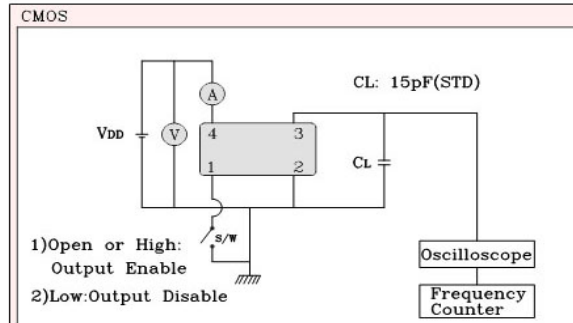
2 of 3

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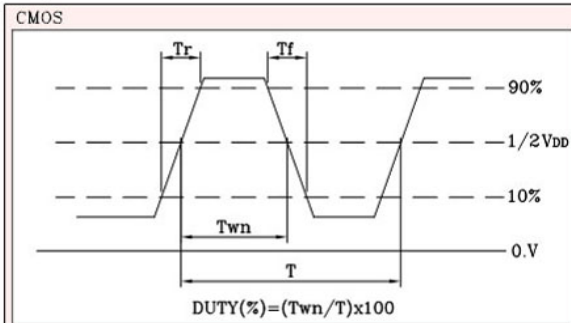
Date 29/10/07

ACT9325 continued

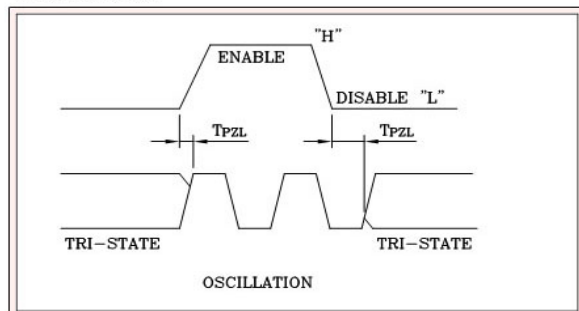
Test circuits



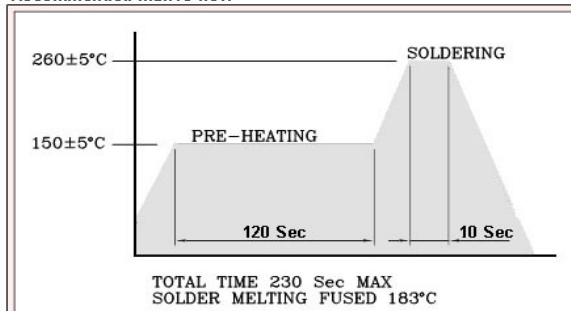
Output



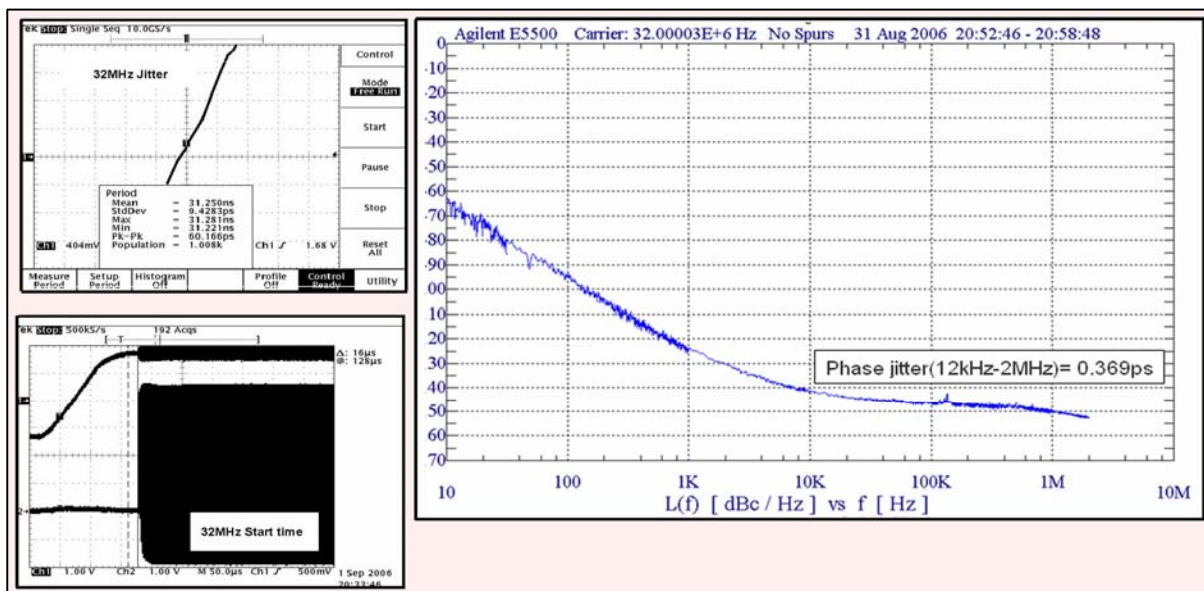
Tri-state function



Recommended max re-flow



Typical test results for 32MHz device



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