

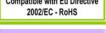
reeled on 3,000 piece reels and is fully RoHS compatible.

close component packing density requirements. The product is available taped and

ACT3215A SMX

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

> Compatible with Eu Directive 2002/EC - RoHS

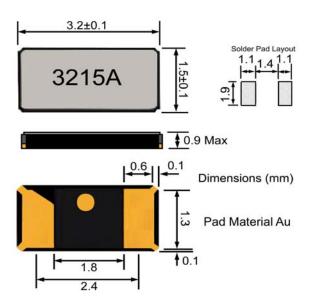


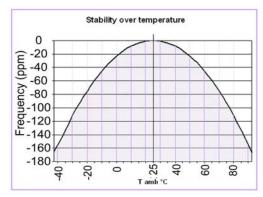
The ACT3215A is a miniature surface mount high density Watch Crystal in a metal lid ceramic package offering light weight and low height. High stability is assured with a vacuum, within a seam sealed package. It is very suitable for portable equipment and



Specification

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Parameter	Symbol	Specification condition	
Nominal Frequency	fo	32.768KHz	
Frequency Tolerance @25°C	Δf/fo	±20ppm	DL 0.1μW
Frequency v Temperature	Δf/fo	See Drawing Below	
Turnover Temperature	Tm	25°C ±5°C	
Temperature Coefficient	β	-0.034±0.006ppm / °C ² max	
Temp Operating Range	Topr	-40 ~ +85°C	
Temp Storage Range	Tstg	-55 ~ +125°C	
Equivalent Series Resistance	ESR	70KΩ max	
Load Capacitance	CL	12.5pF (standard)	9pF and 7pF available please specify
Shunt Capacitance	C0	0.95pF Typical	
Motional Capacitance	C1	0.0033pF Typical	
Drive Level	DL	1.0μW max	
Insulation Resistance	IR	500MΩ @ 100±15VDC min	
Aging	Fa	±3ppm max	First year, 25°C ±3°C
Reflow		Please refer to page 2	
Leakage		<1X10 ⁻⁸ hpa · 1/s	Helium leakage





ACT 3215 Material Content						
Material	Mass Grams		Material	Mass Grams		
Ag	0.0720		Мо	0.0458		
AI2O3	6.7161		Ni	1.0202		
Au	0.8505		Pd	0.0001		
CaO	0.0275		Si Resin	0.0080		
Со	0.5066		SiO2	0.5674		
Cr2O3	0.2837		Sn	0.0800		
Fe	1.5840		Ti	0.0006		
Ge	0.0648		TiO2	0.0732		
MgO	0.0366		W	1.4000		
Total	13.33676g					

In line with our ongoing policy of product evolvement and improvement, the above specification may subject to change without notice ISO9001:2000 Registered

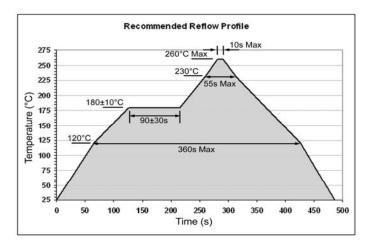
For quotations or further information please contact us at: 3 The Business Centre, Molly Millars Lane, Wokingham, Berkshire, RG41 2EY, UK

http://www.actcrystals.com



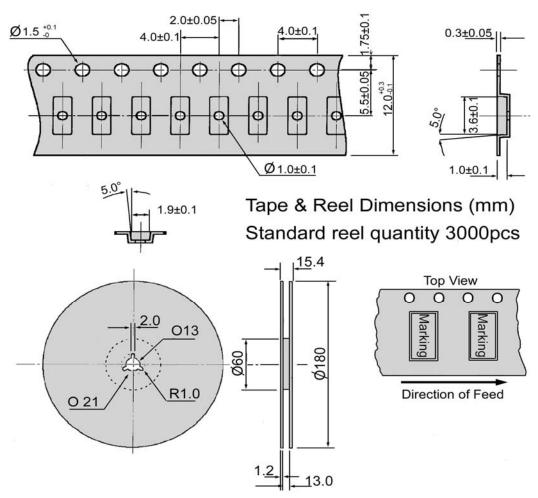
ACT3215 SMX continued

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Note:

Crystal products may be affected or even destroyed by ultrasonic cleaning. Undertake trials of any cleaning process before committing that process to production.



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