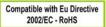
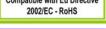


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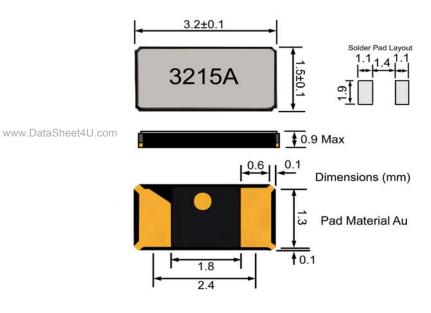


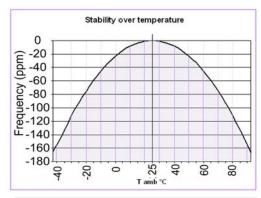
## **ACT3215A SMX**

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 close component packing density requirements. The product is available taped and reeled on 3,000 piece reels and is fully RoHS compatible.

## **Specification**

Symbol	Specification	condition
fo	32.768KHz	
∆f/fo	±20ppm DL 0.1μW	
∆f/fo	See Drawing Below	
Tm	25°C ±5°C	
β	-0.034±0.006ppm / °C <sup>2</sup> max	
Topr	-40 ~ +85°C	
Tstg	-55 ~ +125°C	
ESR	70KΩ max	
CL	12.5pF (standard)	9pF and 7pF available please specify
C0	0.95pF Typical	
C1	0.0033pF Typical	
DL	1.0μW max	
IR	$500$ M $\Omega$ @ $100\pm15$ VDC min	
Fa	±3ppm max	First year, 25°C ±3°C
	Please refer to page 2	
	<1X10 <sup>-8</sup> hpa · 1/s	Helium leakage
	$\begin{array}{c} \text{fo} \\ \Delta f/\text{fo} \\ \Delta f/\text{fo} \\ \text{Tm} \\ \beta \\ \text{Topr} \\ \text{Tstg} \\ \text{ESR} \\ \text{CL} \\ \text{C0} \\ \text{C1} \\ \text{DL} \\ \text{IR} \\ \end{array}$	fo 32.768KHz $\Delta f/fo$ ±20ppm $\Delta f/fo$ See Drawing Below Tm 25°C ±5°C $\beta$ -0.034±0.006ppm / °C² max Topr -40 ~ +85°C Tstg -55 ~ +125°C ESR 70KΩ max CL 12.5pF (standard) C0 0.95pF Typical C1 0.0033pF Typical DL 1.0μW max IR 500MΩ @ 100±15VDC min Fa ±3ppm max





ACT 3215 Material Content						
Material	Mass Grams		Material	Mass Grams		
Ag	0.0720		Мо	0.0458		
Al2O3	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

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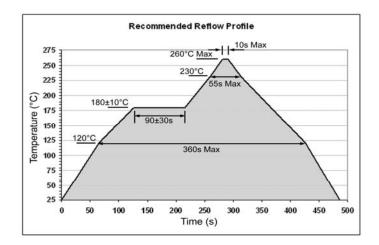


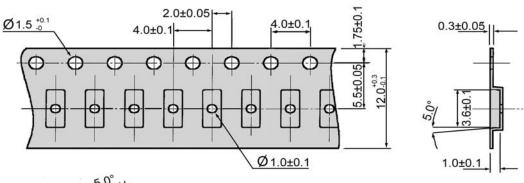
ACT3215 SMX continued

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## Note:

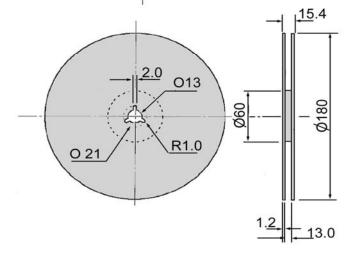
Crystal products may be affected or even destroyed by ultrasonic cleaning. Undertake trials of any cleaning process before committing that process to production.



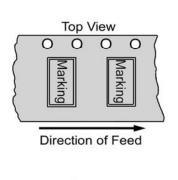


Tape & Reel Dimensions (mm)

Standard reel quantity 3000pcs



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