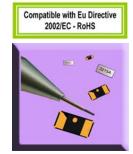


ACT3215A SMX

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.

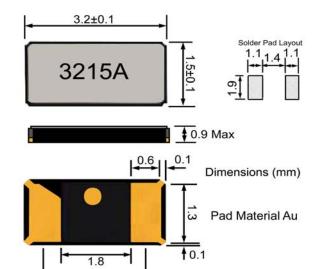
Tel: 004 Fax: 004 email: info

0044 (0)118 979 1238 0044 (0)118 979 1283 info@actcrystals.com

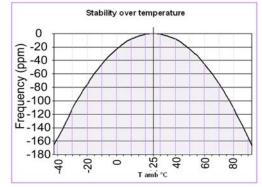


Specification

opoonioalion			
Parameter	Symbol	Specification condition	
Nominal Frequency	fo	32.768KHz	
Frequency Tolerance @25°C	∆f/fo	±20ppm	DL 0.1µW
Frequency v Temperature	∆f/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



2.4



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

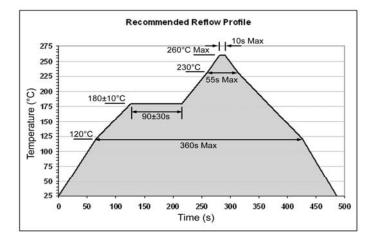
http://www.actcrystals.com

Issue1M4E 13/08/2008



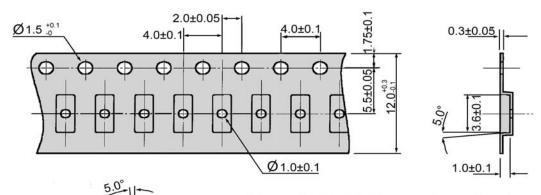
Tel :	0044 (0)118 979 1238
Fax :	0044 (0)118 979 1283
email :	info@actcrystals.com

ACT3215 SMX continued

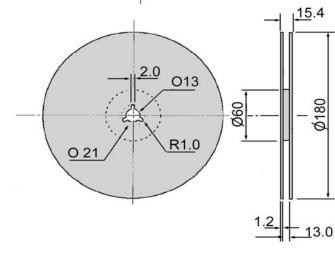


Note:

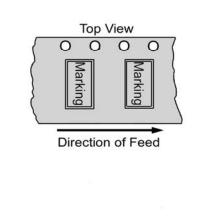
Crystal products may be affected or even destroyed by ultrasonic cleaning. Undertake trials of any cleaning process before committing that process to production.



Tape & Reel Dimensions (mm) Standard reel quantity 3000pcs



1.9±0.1



In line with our ongoing policy of product evolvement and improvement, the above specification may subject to change without notice
ISO9001:2000 Registered
For quotetions or further information places contact up at:

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

> Issue1M4E 13/08/2008