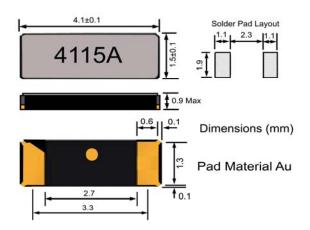


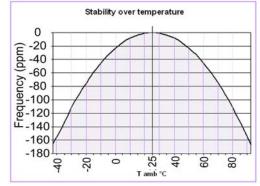
ACT4115A SMX

The ACT4115A 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

Spee Para

reeled on 3,000 piece reels and is fully	RoHS compatible.				
Specification					
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	1.1 pF Typical			
Motional Capacitance	C1	0.0021 pF 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 4115 Material Content				
Material	Mass Grams		Material	Mass Grams
Ag	0.0900		Мо	0.0458
AI2O3	8.0770		Ni	1.0027
Au	1.0021		Pd	0.0001
CaO	0.0280		Si Resin	0.0100
Со	0.5260		SiO2	0.3020
Cr2O3	0.3420		Sn	0.1200
Fe	1.8070		Ti	0.0008
Ge	0.0650		TiO2	0.0900
MgO	0.0450		W	1.3130
Total	15.725g			

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

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Tel:

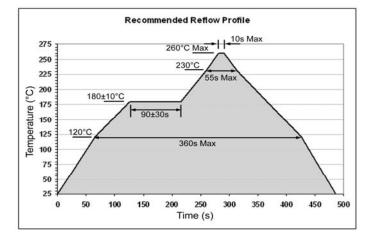
Fax :

email :



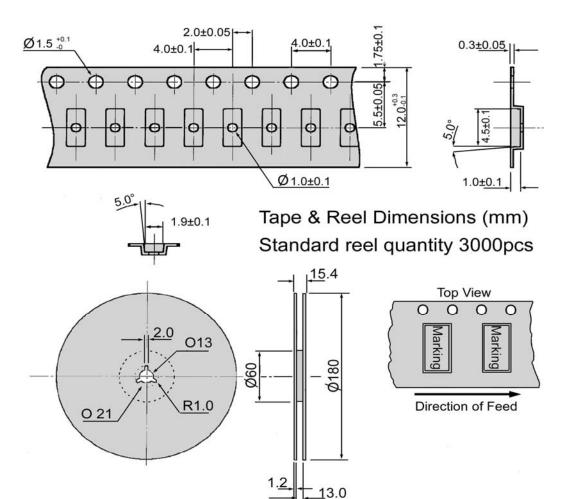
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email :	info@actcrystals.com

ACT4115A 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.



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