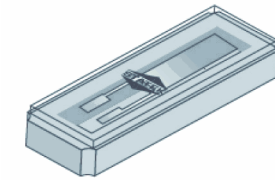


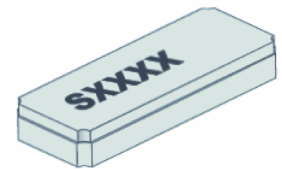
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Description

- This product is designed and manufactured by Statek Corporation in California, USA and distributed by IQD. Designed and manufactured in the USA, Statek's CX9 AT quartz crystal is the newest device available in frequencies ranging from 13.5MHz to 250MHz. This device has been specifically designed for applications requiring a very small foot print and low profile.
- -C-SM1 Gold Plated (RoHS) ceramic lid
- -C-SM2 Solder plated (non RoHS) ceramic lid
- -C-SM3 Solder dipped (non RoHS) ceramic lid
- -C-SM4 Solder Plated (RoHS) ceramic lid
- -C-SM5 Solder Dipped (RoHS) ceramic lid
- -SM1 Gold Plated (RoHS) glass lid
- Terminations are gold plated (RoHS compliant)
- -SM2 Solder plated (non RoHS) glass lid
- -SM3 Solder dipped (non RoHS) glass lid
- -SM4 Solder Plated (RoHS) glass lid
- Terminations are solder plated (RoHS compliant)
- -SM5 Solder Dipped (RoHS) ceramic lid
- Terminations are solder dipped (RoHS compliant)
- Please note that all data is only valid at 25°C unless otherwise stated.

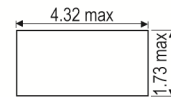


glass lid

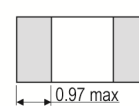
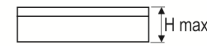


ceramic lid

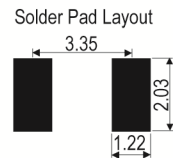
Outline (mm) -SM1 = Gold Plated (RoHS) glass lid



Height (H) =	Glass	Ceramic
SM1	0.87	0.90
SM2/SM4	0.87	0.90
SM3/SM5	0.91	0.94



Underside View



Frequency Parameters

- Frequency 13.5MHz to 250.0MHz
- Frequency Tolerance ±100.00ppm
- Tolerance Condition @ 25°C
- Frequency Stability ±10.00ppm to ±100.00ppm
- Ageing ±5ppm max in 1st year (f<40MHz)

Electrical Parameters

- Load Capacitance (CL) 10.0pF
- Shunt Capacitance (C0) 1pF typ
- Drive Level 200µW max f≤50MHz, 100µW max f>50MHz
- Typical Electrical Parameters:

Frequency	14.7456MHz	24MHz	49MHz
ESR (Ω)	65	30	30
C1 (fF)	1.2	1.6	2.1
Q (k)	140	160	60
Co (pF)	0.6	0.8	1.0

Operating Temperature Ranges

- -10 to 70°C
- -40 to 85°C
- -55 to 125°C

Environmental Parameters

- Shock: 5000G, 0.3 ms, 1/2 sine
- Vibration: MIL-STD202G, Method 204D, Condition D: 20g, 10-2000 Hz, swept sine
- Storage Temp Range: -55 to 125°C

Manufacturing Details

- RoHS Reflow 260°C max for 20s max

Sales Office Contact Details:

UK: +44 (0)1460 270200

USA: +1.760.318.2824

Email: info@iqdfrequencyproducts.com

Web: www.iqdfrequencyproducts.com

Ordering Information

- Terminations:
 - SM1 = Gold Plated (RoHS)
 - SM2 = Solder Plated (non RoHS)
 - SM3 = Solder Dipped (non RoHS)
 - SM4 = Solder Plated (RoHS)
 - SM5 = Solder Dipped (RoHS)
- Example:
 - 20.0MHz CX9 AT-C-SM1
 - 100/100/-55 to 125C/10 FUND
- Ordering Information (*minimum required):
 - Frequency*
 - Model*
 - Lid:* C=Ceramic, Blank=Glass
 - Variant:* SM1, SM2, SM3, SM4, SM5
 - Frequency Tolerance @25°C*
 - Frequency Stability over operating temperature range*
 - Operating Temperature Range*
 - Load Capacitance
 - Overtone

Compliance

- RoHS Status (2015/863/EU) Optional
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

- Pack Style: Tray Tray Pack
Pack Size: 1
- Pack Style: Reel Tape & reel in accordance with EIA-481-D
Pack Size: 1,000

Electrical Specification - maximum limiting values

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Over Tone Order	ESR
		°C	ppm		Ω
13.5MHz	250.0MHz	-10 to 70	±10	Fundamental	- 0
		-40 to 85	±20		- 0
		-55 to 125	±30		- 0

*Stability Maximum values ±100ppm

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