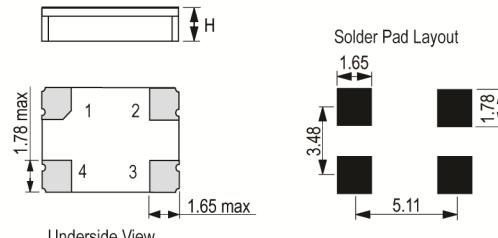
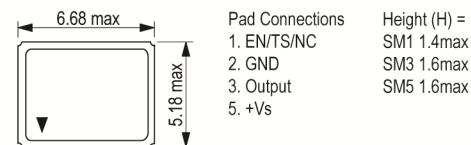


ISSUE 9; January 2016


Description

- The surface-mount CXOM oscillator consist of a miniature quartz crystal and a CMOS/TTL compatible hybrid circuit in a low-profile ceramic package with a small footprint.
- -SM1 SM1 (Gold Plated, RoHS compliant)
- -SM5 SM5 (Solder Dipped, RoHS compliant)
- FEATURES:
 - Designed for surface mount applications using infrared, vapour phase or epoxy mount techniques
 - CMOS and TTL compatible
 - Low power consumption
 - Optional Output Enable/Disable with Tri-State
 - Low EMI emission
 - High shock resistance
 - Full military testing available
- APPLICATIONS:
 - Military & Aerospace -
 - Smart munitions
 - Cockpit systems
 - Navigation
 - Industrial, Computer & Communications -
 - Industrial controls
 - Instrumentation
 - Microprocessor clocks
 - Medical -
 - Infusion pumps
- Please note that all data is only valid at 25°C unless otherwise stated.


Outline (mm) -SM1 = SM1 (Gold Plated, RoHS compliant)

Frequency Parameters

- Frequency 200.0kHz to 160.0MHz
- Frequency Tolerance $\pm 100.00\text{ppm}$ to $\pm 10,000.00\text{ppm}$
- Tolerance Condition @ 25°C
- Frequency Stability $\pm 50.00\text{ppm}$ to $\pm 100.00\text{ppm}$
- Ageing $\pm 10\text{ppm}$ max in 1st year @ 25°C
- Frequency Stability does not include Frequency Tolerance @ 25°C
- Note: Other Frequency Tolerances and Stabilities are available - please contact an IQD Sales Office

Electrical Parameters

- Supply Voltage 5.0V $\pm 10\%$
- Note: Other Supply Voltages are available - please contact an IQD Sales Office
- Supply Current (typical):
 - 10MHz - 4mA
 - 24MHz - 8mA
 - 30MHz - 10mA
 - 40MHz - 12mA
 - 50MHz - 14mA
- Absolute Maximum Supply Voltage: -0.5V to 7.0V

Operating Temperature Ranges

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

Sales Office Contact Details:

 UK: +44 (0)1460 270200
 Germany: 0800 1808 443

 France: 0800 901 383
 USA: +1 408.273.4530

 Email: info@iqdfrequencyproducts.com
 Web: www.iqdfrequencyproducts.com

Output Details

- Output Compatability CMOS
- Drive Capability 15pF
- Note: Higher CMOS loads and TTL loads are available - please contact an IQD Sales Office

Output Control

- Start-Up Time: 5ms max

Environmental Parameters

- Shock: 3000G, 0.3ms, 1/2 sine wave
- Note: A higher Shock version is available - please contact an IQD Sales Office about the CXOMHG product range
- Vibration: MIL-STD-202G, Method 204D, Condition D: 20G, 10Hz-2000Hz, swept sine wave
- Note: Random vibration testing also available - please contact an IQD Sales Office
- Storage Temperature Range: -55 to 125°C

Manufacturing Details

- Maximum Process Temperature: 260°C for 20sec max

Ordering Information

- Frequency*
Model*
Termination Variant*
Output
Frequency Tolerance (@ 25°C)*
Frequency Stability (over operating temperature range)*
Operating Temperature Range*
Supply Voltage
Pad 1 Function*
(*minimum required)
- Termination Variants:
SM1 = Gold Plated
SM5 = Solder Dipped
Note: non-RoHS compliant terminations are available - please contact an IQD Sales Office
- Pad 1 Function Options:
EN = Enable/Disable
TS = Tri-State
NC = No connection
- Example
40.0MHz CXOM SM1
CMOS $\pm 100\text{ppm}$ $\pm 100\text{ppm}$ -10 to 70C 5V TS

Compliance

- RoHS Status (2011/65/EU) Optional
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

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Packaging Details

- Pack Style: Cutt In tape, cut from a reel
Pack Size: 1
- Pack Style: Tray Supplied on a tray
Pack Size: 1
- Pack Style: Reel Tape & reel in accordance with EIA-481-D
Pack Size: 1,000
- Pack Style: Bulk Loose in bulk pack
Pack Size: 1

Electrical Specification - maximum limiting values 5.0V ±10%

Frequency Min	Frequency Max	Temperature Range	Stability	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
200.0kHz	160.0MHz	-10 to 70	±50.0	-	6	40/60
		-40 to 85	±100.0	-	6	40/60
		-55 to 125	±100.0	-	6	40/60

This document was correct at the time of printing; please contact your local sales office for the latest version.

[Click to view latest version on our website.](#)

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