



## LHGAT

### LHGAT

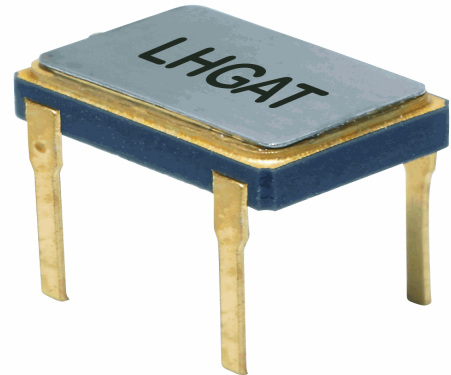
An increasing number of high temperature applications require the use of leaded (through-hole) ceramic packaged oscillators. For these applications, IQD offers the LHGAT 7 x 5mm crystal oscillator. The oscillator is designed to operate over a temperatures range of -55 to 125°C with high shock survivability.

Model Name	Description
LHGAT 1.8V	A 1.8V Version
LHGAT 2.5V	A 2.5V Version
LHGAT 3.0V	A 3.0V Version
LHGAT 3.3V	A 3.3V Version
LHGAT 5.0V	A 5.0V Version

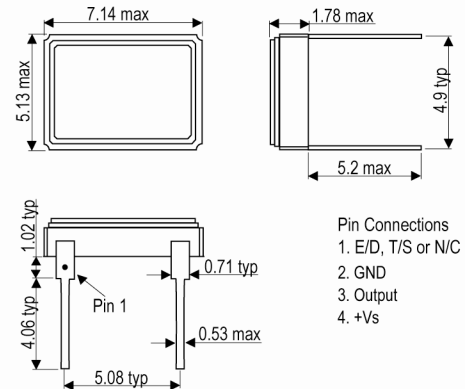
ISSUE 2; June 2019

### Description

- This product is designed and manufactured by Statek Corporation in California, USA and distributed by IQD. An increasing number of high temperature applications require the use of leaded (through-hole) ceramic packaged oscillators. For these applications, IQD offers the LHGAT 7 x 5mm crystal oscillator. The oscillator is designed to operate over a temperatures range of -55 to 125°C with high shock survivability.
- A 5000G, Gold Plated (RoHS)
- A-05 5000G, Solder Dipped (RoHS)
- B 10000G, Gold Plated (RoHS)
- B-05 10000G, Solder Dipped (RoHS)
- C 20000G, Gold Plated (RoHS)
- C-05 20000G, Solder Dipped (RoHS)
- D 30000G, Gold Plated (RoHS)
- D-05 30000G, Solder Dipped (RoHS)
- FEATURES:
  - Excellent stability over temperature
  - High shock resistance
  - CMOS output - output enable/disable
  - Hermetically sealed ceramic package - 7 x 5mm
  - Double hermetically sealed package option
  - Through-hole leaded package
  - Reduces mechanical and thermal mounting stresses
  - Robust lead-attach eutectic brazing process
  - Gold plated Kovar leads
- APPLICATIONS:
  - Aerospace -
  - Navigation / Communications
  - Avionics applications
  - Flight recorder
  - Engine control
- Please note that all data is only valid at 25°C unless otherwise stated.



Outline (mm) A = 5000G, Gold Plated (RoHS)



### Frequency Parameters

- Frequency 320.0kHz to 50.0MHz
- Frequency Tolerance  $\pm 20.00\text{ppm}$  to  $\pm 100.00\text{ppm}$
- Tolerance Condition @ 25°C
- Frequency Stability  $\pm 15.00\text{ppm}$  to  $\pm 100.00\text{ppm}$
- Ageing  $\pm 5\text{ppm}$  max 1st year @ 25°C
- Frequency Stability does not include Frequency Tolerance @ 25°C
- Note: Tighter Frequency Tolerances and higher Operating Temperatures (up to 200°C) are available - please contact an IQD Sales Office

### Electrical Parameters

- Supply Voltage 1.8V  $\pm 10\%$
- Current Draw (typical for the 3.3V version):
  - 24MHz - 3.0mA
  - 32MHz - 5.0mA
  - 40MHz - 5.5mA
  - 50MHz - 6.0mA
- Absolute Maximum Supply Voltage: -0.5V to 4.0V
- Note: Tighter Duty Cycles are available - please contact an IQD Sales Office

### Operating Temperature Ranges

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

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**Output Details**

- Output Compatibility CMOS
- Drive Capability 15pF

**Output Control**

- Start-Up Time: 5ms max

**Environmental Parameters**

- Shock: Level (A to D), 0.5ms, 1/2 sine
- Vibration: 20G, 10-2000Hz swept sine
- Storage Temperature Range: -55 to 125°C

**Manufacturing Details**

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

**Ordering Information**

- Frequency\*  
Model\*  
Supply Voltage  
Shock Level\*  
Terminations Variant\*  
Output  
Frequency Tolerance (@ 25°C)\*  
Frequency Stability (over operating temperature range)\*  
Operating Temperature Range\*  
Pin 1 Function\*  
(\*minimum required)
- Shock Level Options:  
A = 5000G (standard)  
B = 10000G  
C = 20000G  
D = 30000G  
Note: Shock levels above 30000G are available - please contact an IQD Sales Office
- Termination Variants:  
'Blank' = Gold Plated  
05 = Solder Dipped  
Note: non-RoHS compliant terminations are available - please contact an IQD Sales Office
- Pin 1 Function Options:  
EN = Enable/Disable  
TS = Tri-State  
NC = No connection
- Example  
10.0MHz LHGAT 1.8V A-05  
CMOS ±50ppm ±100ppm -40 to 85C EN

**Compliance**

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

**Packaging Details**

- Pack Style: Tube Supplied in tubes  
Pack Size: 1



# Crystal Clock Oscillator Specification LHGAT 1.8V

ISSUE 2; June 2019

Electrical Specification - maximum limiting values 1.8V  $\pm$ 10%

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
320.0kHz	50.0MHz	-10 to 70	$\pm$ 15.0	-	8	40/60%
		-40 to 85	$\pm$ 30.0	-	8	40/60%
		-55 to 125	$\pm$ 40.0	-	8	40/60%

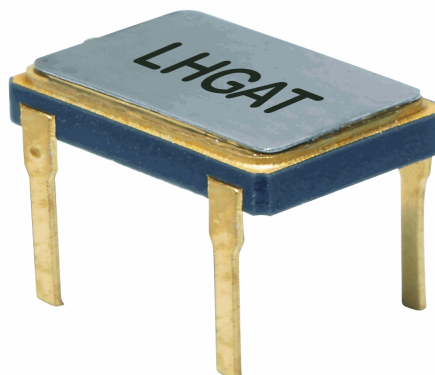
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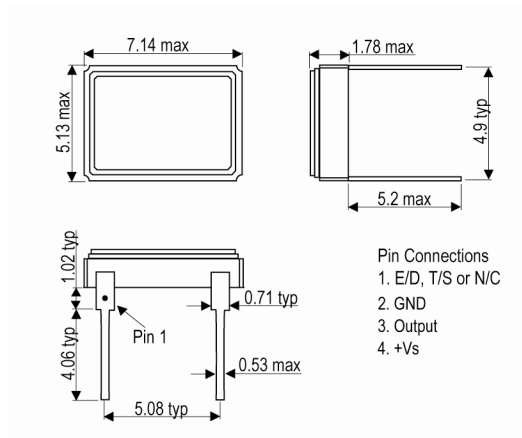
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### Description

- This product is designed and manufactured by Statek Corporation in California, USA and distributed by IQD. An increasing number of high temperature applications require the use of leaded (through-hole) ceramic packaged oscillators. For these applications, IQD offers the LHGAT 7 x 5mm crystal oscillator. The oscillator is designed to operate over a temperature range of -55 to 125°C with high shock survivability.
- A 5000G, Gold Plated (RoHS)
- A-05 5000G, Solder Dipped (RoHS)
- B 10000G, Gold Plated (RoHS)
- B-05 10000G, Solder Dipped (RoHS)
- C 20000G, Gold Plated (RoHS)
- C-05 20000G, Solder Dipped (RoHS)
- D 30000G, Gold Plated (RoHS)
- D-05 30000G, Solder Dipped (RoHS)
- FEATURES:
  - Excellent stability over temperature
  - High shock resistance
  - CMOS output - output enable/disable
  - Hermetically sealed ceramic package - 7 x 5mm
  - Double hermetically sealed package option
  - Through-hole leaded package
  - Reduces mechanical and thermal mounting stresses
  - Robust lead-attach eutectic brazing process
  - Gold plated Kovar leads
- APPLICATIONS:
  - Aerospace -
  - Navigation / Communications
  - Avionics applications
  - Flight recorder
  - Engine control
- Please note that all data is only valid at 25°C unless otherwise stated.



Outline (mm) A = 5000G, Gold Plated (RoHS)



### Frequency Parameters

- Frequency 320.0kHz to 50.0MHz
- Frequency Tolerance  $\pm 20.00\text{ppm}$  to  $\pm 100.00\text{ppm}$
- Tolerance Condition @ 25°C
- Frequency Stability  $\pm 15.00\text{ppm}$  to  $\pm 100.00\text{ppm}$
- Ageing  $\pm 5\text{ppm}$  max 1st year @ 25°C
- Frequency Stability does not include Frequency Tolerance @ 25°C
- Note: Tighter Frequency Tolerances and higher Operating Temperatures (up to 200°C) are available - please contact an IQD Sales Office

### Electrical Parameters

- Supply Voltage 2.5V  $\pm 10\%$
- Current Draw (typical for the 3.3V version):
  - 24MHz - 3.0mA
  - 32MHz - 5.0mA
  - 40MHz - 5.5mA
  - 50MHz - 6.0mA
- Absolute Maximum Supply Voltage: -0.5V to 4.0V
- Note: Tighter Duty Cycles are available - please contact an IQD Sales Office

### Operating Temperature Ranges

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



ISSUE 2; June 2019

#### Output Details

- Output Compatibility CMOS
- Drive Capability 15pF

#### Output Control

- Start-Up Time: 5ms max

#### Environmental Parameters

- Shock: Level (A to D), 0.5ms, 1/2 sine
- Vibration: 20G, 10-2000Hz swept sine
- Storage Temperature Range: -55 to 125°C

#### Manufacturing Details

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

#### Ordering Information

- Frequency\*  
Model\*  
Supply Voltage  
Shock Level\*  
Terminations Variant\*  
Output  
Frequency Tolerance (@ 25°C)\*  
Frequency Stability (over operating temperature range)\*  
Operating Temperature Range\*  
Pin 1 Function\*  
(\*minimum required)
- Shock Level Options:  
A = 5000G (standard)  
B = 10000G  
C = 20000G  
D = 30000G  
Note: Shock levels above 30000G are available - please contact an IQD Sales Office
- Termination Variants:  
'Blank' = Gold Plated  
05 = Solder Dipped  
Note: non-RoHS compliant terminations are available - please contact an IQD Sales Office
- Pin 1 Function Options:  
EN = Enable/Disable  
TS = Tri-State  
NC = No connection
- Example  
10.0MHz LHGAT 2.5V A-05  
CMOS ±50ppm ±100ppm -40 to 85C EN

#### Compliance

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

#### Packaging Details

- Pack Style: Tube Supplied in tubes  
Pack Size: 1



# Crystal Clock Oscillator Specification LHGAT 2.5V

ISSUE 2; June 2019

Electrical Specification - maximum limiting values 2.5V  $\pm$ 10%

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
320.0kHz	50.0MHz	-10 to 70	$\pm$ 15.0	-	8	40/60%
		-40 to 85	$\pm$ 30.0	-	8	40/60%
		-55 to 125	$\pm$ 40.0	-	8	40/60%

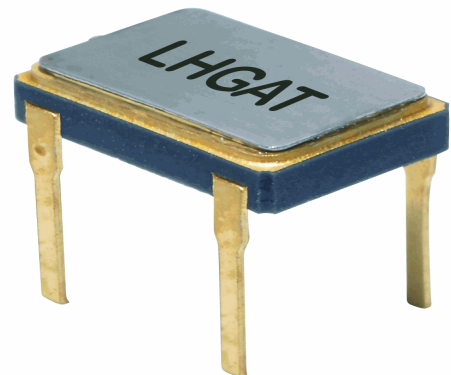
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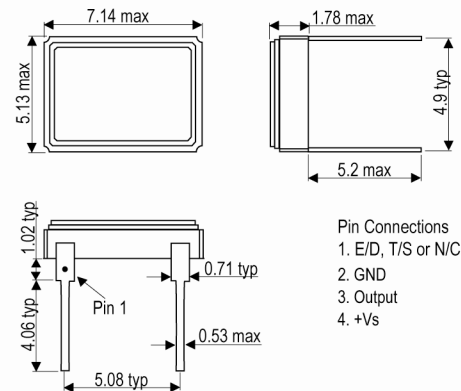
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#### Description

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- A 5000G, Gold Plated (RoHS)
- A-05 5000G, Solder Dipped (RoHS)
- B 10000G, Gold Plated (RoHS)
- B-05 10000G, Solder Dipped (RoHS)
- C 20000G, Gold Plated (RoHS)
- C-05 20000G, Solder Dipped (RoHS)
- D 30000G, Gold Plated (RoHS)
- D-05 30000G, Solder Dipped (RoHS)
- FEATURES:
  - Excellent stability over temperature
  - High shock resistance
  - CMOS output - output enable/disable
  - Hermetically sealed ceramic package - 7 x 5mm
  - Double hermetically sealed package option
  - Through-hole leaded package
  - Reduces mechanical and thermal mounting stresses
  - Robust lead-attach eutectic brazing process
  - Gold plated Kovar leads
- APPLICATIONS:
  - Aerospace -
  - Navigation / Communications
  - Avionics applications
  - Flight recorder
  - Engine control
- Please note that all data is only valid at 25°C unless otherwise stated.



Outline (mm) A = 5000G, Gold Plated (RoHS)



#### Frequency Parameters

- Frequency: 320.0kHz to 50.0MHz
- Frequency Tolerance:  $\pm 20.00\text{ppm}$  to  $\pm 100.00\text{ppm}$
- Tolerance Condition: @ 25°C
- Frequency Stability:  $\pm 15.00\text{ppm}$  to  $\pm 100.00\text{ppm}$
- Ageing:  $\pm 5\text{ppm}$  max 1st year @ 25°C
- Frequency Stability does not include Frequency Tolerance @ 25°C
- Note: Tighter Frequency Tolerances and higher Operating Temperatures (up to 200°C) are available - please contact an IQD Sales Office

#### Electrical Parameters

- Supply Voltage: 3.0V  $\pm 10\%$
- Current Draw (typical for the 3.3V version):
  - 24MHz - 3.0mA
  - 32MHz - 5.0mA
  - 40MHz - 5.5mA
  - 50MHz - 6.0mA
- Absolute Maximum Supply Voltage: -0.5V to 4.0V
- Note: Tighter Duty Cycles are available - please contact an IQD Sales Office

#### Operating Temperature Ranges

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



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**Output Details**

- Output Compatibility CMOS
- Drive Capability 15pF

**Output Control**

- Start-Up Time: 5ms max

**Environmental Parameters**

- Shock: Level (A to D), 0.5ms, 1/2 sine
- Vibration: 20G, 10-2000Hz swept sine
- Storage Temperature Range: -55 to 125°C

**Manufacturing Details**

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

**Ordering Information**

- Frequency\*  
Model\*  
Supply Voltage  
Shock Level\*  
Terminations Variant\*  
Output  
Frequency Tolerance (@ 25°C)\*  
Frequency Stability (over operating temperature range)\*  
Operating Temperature Range\*  
Pin 1 Function\*  
(\*minimum required)
- Shock Level Options:  
A = 5000G (standard)  
B = 10000G  
C = 20000G  
D = 30000G  
Note: Shock levels above 30000G are available - please contact an IQD Sales Office
- Termination Variants:  
'Blank' = Gold Plated  
05 = Solder Dipped  
Note: non-RoHS compliant terminations are available - please contact an IQD Sales Office
- Pin 1 Function Options:  
EN = Enable/Disable  
TS = Tri-State  
NC = No connection
- Example  
10.0MHz LHGAT 3.0V A-05  
CMOS ±50ppm ±100ppm -40 to 85C EN

**Compliance**

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

**Packaging Details**

- Pack Style: Tube Supplied in tubes  
Pack Size: 1



# Crystal Clock Oscillator Specification LHGAT 3.0V

ISSUE 2; June 2019

Electrical Specification - maximum limiting values 3.0V  $\pm$ 10%

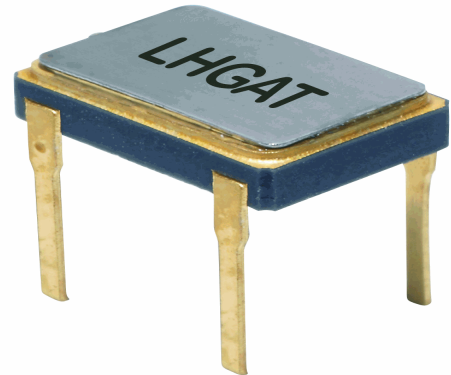
Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
320.0kHz	50.0MHz	-10 to 70	$\pm$ 15.0	-	8	40/60%
		-40 to 85	$\pm$ 30.0	-	8	40/60%
		-55 to 125	$\pm$ 40.0	-	8	40/60%

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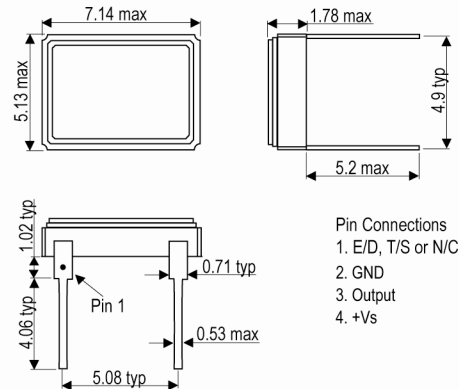
### ISSUE 2; June 2019

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- A 5000G, Gold Plated (RoHS)
- A-05 5000G, Solder Dipped (RoHS)
- B 10000G, Gold Plated (RoHS)
- B-05 10000G, Solder Dipped (RoHS)
- C 20000G, Gold Plated (RoHS)
- C-05 20000G, Solder Dipped (RoHS)
- D 30000G, Gold Plated (RoHS)
- D-05 30000G, Solder Dipped (RoHS)
- FEATURES:
  - Excellent stability over temperature
  - High shock resistance
  - CMOS output - output enable/disable
  - Hermetically sealed ceramic package - 7 x 5mm
  - Double hermetically sealed package option
  - Through-hole leaded package
  - Reduces mechanical and thermal mounting stresses
  - Robust lead-attach eutectic brazing process
  - Gold plated Kovar leads
- APPLICATIONS:
  - Aerospace -
  - Navigation / Communications
  - Avionics applications
  - Flight recorder
  - Engine control
- Please note that all data is only valid at 25°C unless otherwise stated.



Outline (mm) A = 5000G, Gold Plated (RoHS)



#### Frequency Parameters

- Frequency: 320.0kHz to 50.0MHz
- Frequency Tolerance:  $\pm 20.00\text{ppm}$  to  $\pm 100.00\text{ppm}$
- Tolerance Condition: @ 25°C
- Frequency Stability:  $\pm 15.00\text{ppm}$  to  $\pm 100.00\text{ppm}$
- Ageing:  $\pm 5\text{ppm}$  max 1st year @ 25°C
- Frequency Stability does not include Frequency Tolerance @ 25°C
- Note: Tighter Frequency Tolerances and higher Operating Temperatures (up to 200°C) are available - please contact an IQD Sales Office

#### Electrical Parameters

- Supply Voltage: 3.3V  $\pm 10\%$
- Current Draw (typical):
  - 24MHz - 3.0mA
  - 32MHz - 5.0mA
  - 40MHz - 5.5mA
  - 50MHz - 6.0mA
- Absolute Maximum Supply Voltage: -0.5V to 4.0V
- Note: Tighter Duty Cycles are available - please contact an IQD Sales Office

#### Operating Temperature Ranges

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

**ISSUE 2; June 2019**

**Output Details**

- Output Compatibility CMOS
- Drive Capability 15pF

**Output Control**

- Start-Up Time: 5ms max

**Environmental Parameters**

- Shock: Level (A to D), 0.5ms, 1/2 sine
- Vibration: 20G, 10-2000Hz swept sine
- Storage Temperature Range: -55 to 125°C

**Manufacturing Details**

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

**Ordering Information**

- Frequency\*  
Model\*  
Supply Voltage  
Shock Level\*  
Terminations Variant\*  
Output  
Frequency Tolerance (@ 25°C)\*  
Frequency Stability (over operating temperature range)\*  
Operating Temperature Range\*  
Pin 1 Function\*  
(\*minimum required)
- Shock Level Options:  
A = 5000G (standard)  
B = 10000G  
C = 20000G  
D = 30000G  
Note: Shock levels above 30000G are available - please contact an IQD Sales Office
- Termination Variants:  
'Blank' = Gold Plated  
05 = Solder Dipped (RoHS)  
Note: non-RoHS compliant terminations are available - please contact an IQD Sales Office
- Pin 1 Function Options:  
EN = Enable/Disable  
TS = Tri-State  
NC = No connection
- Example  
10.0MHz LHGAT 3.3V A-05  
CMOS ±50ppm ±100ppm -40 to 85C EN

**Compliance**

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

**Packaging Details**

- Pack Style: Tube Supplied in tubes  
Pack Size: 1



# Crystal Clock Oscillator Specification LHGAT 3.3V

ISSUE 2; June 2019

Electrical Specification - maximum limiting values 3.3V  $\pm$ 10%

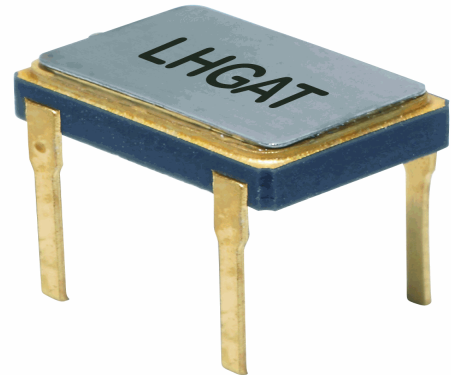
Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
320.0kHz	50.0MHz	-10 to 70	$\pm$ 15.0	-	8	40/60%
		-40 to 85	$\pm$ 30.0	-	8	40/60%
		-55 to 125	$\pm$ 40.0	-	8	40/60%

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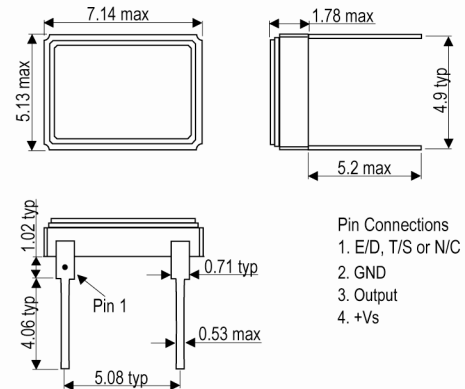
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- A-05 5000G, Solder Dipped (RoHS)
- B 10000G, Gold Plated (RoHS)
- B-05 10000G, Solder Dipped (RoHS)
- C 20000G, Gold Plated (RoHS)
- C-05 20000G, Solder Dipped (RoHS)
- D 30000G, Gold Plated (RoHS)
- D-05 30000G, Solder Dipped (RoHS)
- FEATURES:
  - Excellent stability over temperature
  - High shock resistance
  - CMOS output - output enable/disable
  - Hermetically sealed ceramic package - 7 x 5mm
  - Double hermetically sealed package option
  - Through-hole leaded package
  - Reduces mechanical and thermal mounting stresses
  - Robust lead-attach eutectic brazing process
  - Gold plated Kovar leads
- APPLICATIONS:
  - Aerospace -
  - Navigation / Communications
  - Avionics applications
  - Flight recorder
  - Engine control
- Please note that all data is only valid at 25°C unless otherwise stated.



Outline (mm) A = 5000G, Gold Plated (RoHS)



#### Frequency Parameters

- Frequency 320.0kHz to 50.0MHz
- Frequency Tolerance  $\pm 20.00\text{ppm}$  to  $\pm 100.00\text{ppm}$
- Tolerance Condition @ 25°C
- Frequency Stability  $\pm 15.00\text{ppm}$  to  $\pm 100.00\text{ppm}$
- Ageing  $\pm 5\text{ppm}$  max 1st year @ 25°C
- Frequency Stability does not include Frequency Tolerance @ 25°C
- Note: Tighter Frequency Tolerances and higher Operating Temperatures (up to 200°C) are available - please contact an IQD Sales Office

#### Electrical Parameters

- Supply Voltage 5.0V  $\pm 10\%$
- Current Draw (typical):
  - 24MHz - 8mA
  - 32MHz - 10mA
  - 40MHz - 12mA
  - 50MHz - 13mA
- Absolute Maximum Supply Voltage: -0.5V to 7.0V
- Note: Tighter Duty Cycles are available - please contact an IQD Sales Office

#### Operating Temperature Ranges

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

**ISSUE 2; June 2019**

**Output Details**

- Output Compatibility CMOS
- Drive Capability 15pF

**Output Control**

- Start-Up Time: 5ms max

**Environmental Parameters**

- Shock: Level (A to D), 0.5ms, 1/2 sine
- Vibration: 20G, 10-2000Hz swept sine
- Storage Temperature Range: -55 to 125°C

**Manufacturing Details**

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

**Ordering Information**

- Frequency\*  
Model\*  
Supply Voltage  
Shock Level\*  
Terminations Variant\*  
Output  
Frequency Tolerance (@ 25°C)\*  
Frequency Stability (over operating temperature range)\*  
Operating Temperature Range\*  
Pin 1 Function\*  
(\*minimum required)
- Shock Level Options:  
A = 5000G (standard)  
B = 10000G  
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D = 30000G  
Note: Shock levels above 30000G are available - please contact an IQD Sales Office
- Termination Variants:  
'Blank' = Gold Plated  
05 = Solder Dipped (RoHS)  
Note: non-RoHS compliant terminations are available - please contact an IQD Sales Office
- Pin 1 Function Options:  
EN = Enable/Disable  
TS = Tri-State  
NC = No connection
- Example  
10.0MHz LHGAT 5.0V A-05  
CMOS ±50ppm ±100ppm -40 to 85C EN

**Compliance**

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

**Packaging Details**

- Pack Style: Tube Supplied in tubes  
Pack Size: 1

ISSUE 2; June 2019

Electrical Specification - maximum limiting values 5.0V  $\pm$ 10%

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
320.0kHz	50.0MHz	-10 to 70	$\pm$ 15.0	-	8	40/60%
		-40 to 85	$\pm$ 30.0	-	8	40/60%
		-55 to 125	$\pm$ 40.0	-	8	40/60%

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**Sales Office Contact Details:**

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