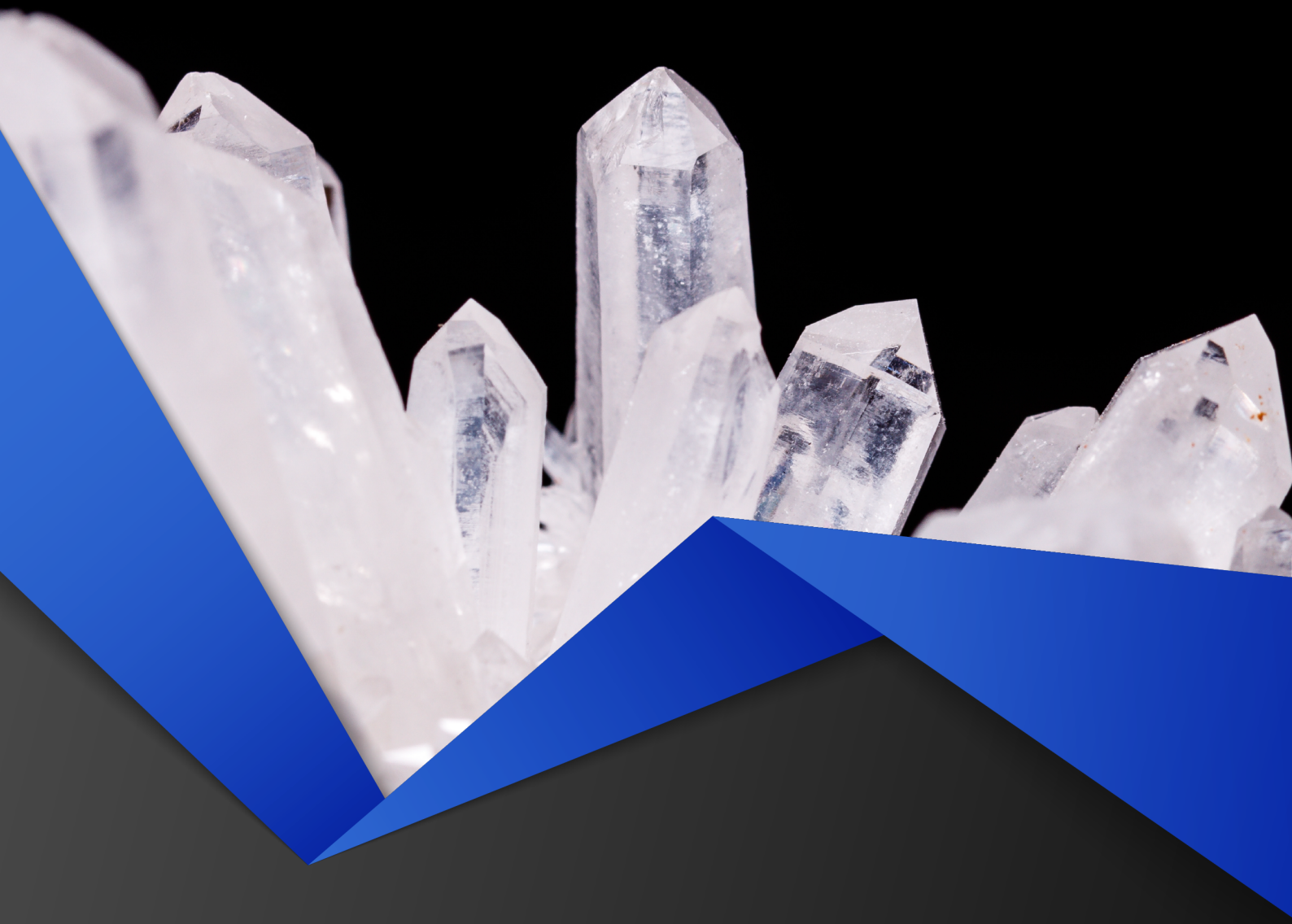
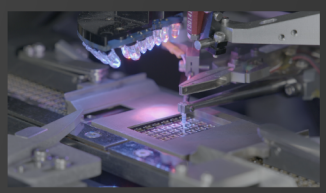
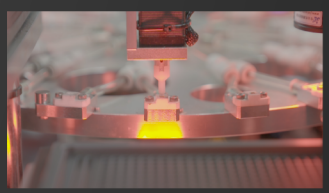
SCTF®



MHz 时钟振荡器 SPXO

值得信赖的专业频率控制元件制造商


www.sctf-crystal.com

值得信赖的专业频率控制元件制造商

企业简介

Company introduction

Since 2003

专业研发、生产、销售系列石英晶体及振荡器产品

推行国际标准质量管理体系：ISO9001:2015、ISO14001：2015、IATF16949：2016

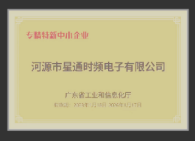
国家高新技术企业、专精特新企业、创新型中小型企业

符合ROHS、REACH标准

以客户为中心 视质量为生命

提供晶振及周边电路运用解决方案

ISO9001:2015 ISO14001:2015 IATF16949:2016

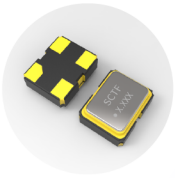


SCTF® 深圳市星通时频电子有限公司
SHENZHEN SCTF ELECTRONICS CO.,LTD

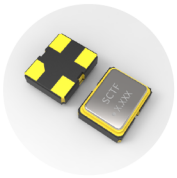
www.sctf-crystal.com 0755-86097105 sales@sctf-crystal.com

产品外观

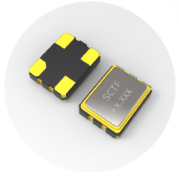
Product Appearance



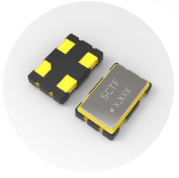
■ **1C Series**
2.0×1.6mm



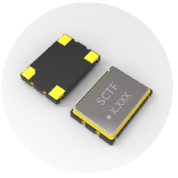
■ **2C Series**
2.5×2.0mm



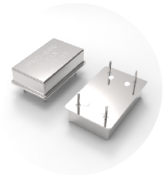
■ **3C Series**
3.2×2.5mm



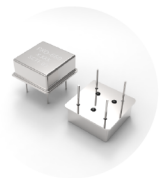
■ **5C Series**
5.0×3.2mm



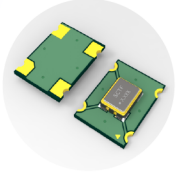
■ **7C Series**
7.0×5.0mm



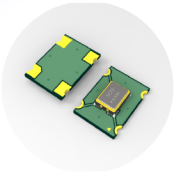
■ **OB Series**
FULL SIZE(PXO-14)



■ **OA Series**
HALF SIZE(PXO-8)



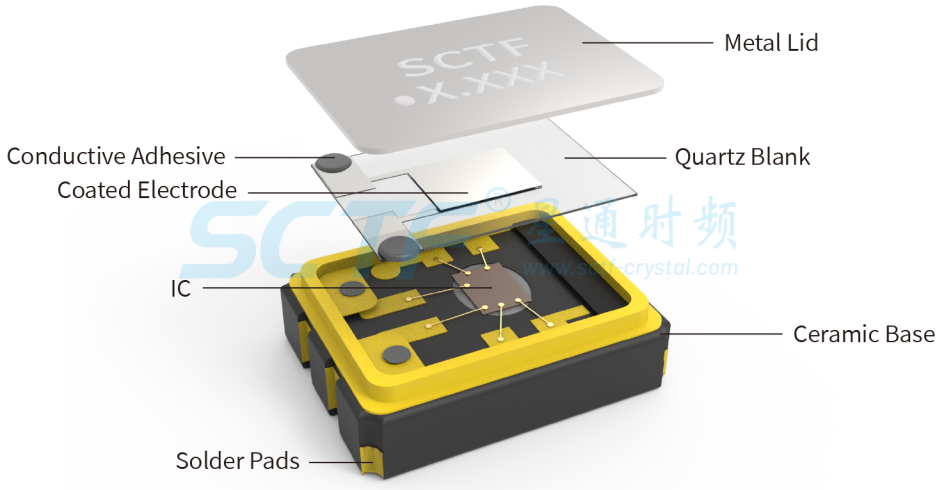
■ **7CP Series**
7.0×5.0mm



■ **5CP Series**
5.0×3.2mm

产品结构

Product Structure



产品选型指南

Product Selection Guide

Item / Series	Size [mm] L	Size [mm] W	Frequency Range [MHz]	Supply Voltage [Typ.V]	Frequency Tolerance [@25℃; ±ppm]	Frequency Drift [±ppm]	Current Consumption	Operating Temperature
1C	2.0	1.6	1 ～ 54	1.8 2.5 3.3	10 20	15 20 30	20mA max.	-20℃～+70℃ -40℃～+85℃
2C	2.5	2.0						
3C	3.2	2.5	1 ～ 160	1.8 2.5 3.3 5.0			40mA max.	
5C	5.0	3.2						
7C	7.0	5.0						
5CP	5.0	3.2						
7CP	7.0	5.0						
OA	12.7	12.7	1 ～ 100			20 30	80mA max.	
OB	20.4	12.8						

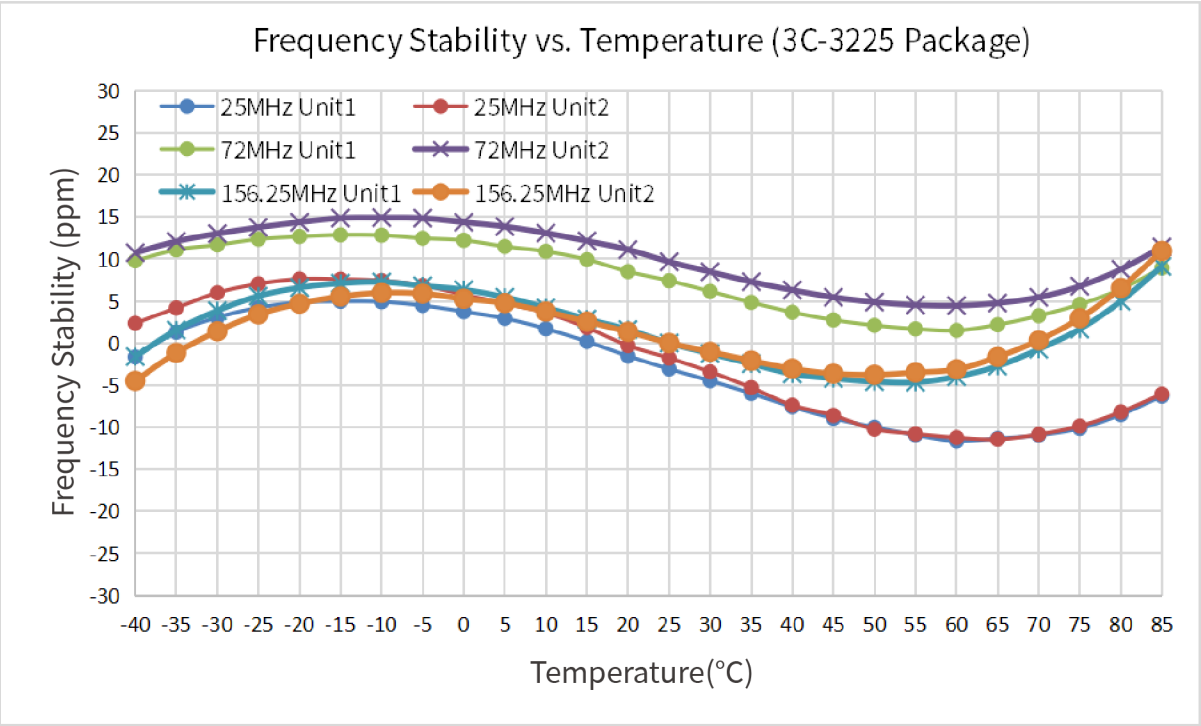
若需要更详细的资料请查询详细规格书或和我们的技术人员联系。

1. 选择需要的封装规格及产品系列：2.0×1.6mm; 1C Series
2. 选择需要的频率：8.000MHz
3. 选择需要的工作电压：3.3V
4. 选择需要的频率稳定度(@+25℃)：±10ppm
5. 选择需要的工作温度范围：-40℃ ~ +85℃
6. 选择需要的频率&温度特性：±30ppm

您需要的产品是：1C Series 8.000MHz 3.3V ±10ppm@25℃ ±30ppm@ -40℃~+85℃

频率温度特性曲线

Frequency Temperature Characteristics



零部件编码示意

Options and Part Identification

Options and Part Identification : Example SX3M1.000B10F20TNN

Company	Ceramic Package	Frequency Code [MHZ]	Supply Voltage	Frequency Tolerance	Operating Temperature	Frequency Drift	Output	Current Consumption	Phase Noise
SX	3M	X.XXX	B	10	F	20	T	N	N

Code	Company
SX	SCTF

Code	Ceramic Package
7M	7.0×5.0×1.3mm
5M	5.0×3.2×1.2mm
3M	3.2×2.5×0.95mm
2M	2.5×2.0×0.81mm
1M	2.0×1.6×0.75mm

Frequency
1.000
13.560
19.200
37.125

Code	Voltage
D	1.8V
H	2.5V
B	3.3V
A	5.0V

Code	Frequency Tolerance
10	±10ppm
20	±20ppm

Code	Operating Temperature
E	-20℃ ~ +70℃
F	-40℃ ~ +85℃

Code	Frequency Drift
15	±15ppm
20	±20ppm
30	±30ppm

Code	Output
T	Squarewave

Code	Current
N	Standard

Code	Phase Noise
N	Standard

If you have other parameter requirements, you can contact **SCTF** at any time.

1C Series 2.0 x 1.6 mm SMD Crystal Oscillator

Feature

- Ultra Miniature Ceramic surface mount with Metal Lid
- CMOS compatible logic levels
- Tri-state function available
- Supply voltage range : 1.62V ~ 3.63V(Compatible with 1.8V, 2.5V, 3.3V)
- RoHS Compliant / Pb Free

Applications

- Wireless Devices
- Internet of Things (IoT) devices
- Ethernet/Gigabit Ethernet
- Audio, Video, Gaming products
- Micro base station

Electrical Specifications

Item	Symb.	Min.	Typ.	Max.	Unit	Notes
Frequency Range	Freq.	1.000		54.000	MHz	
Operating Temperature	T_use	-20		+70	°C	
		-40		+85	°C	
StorageTemperature Range	T_stg	-55		+125	°C	
Supply Voltage	Vdd	1.62	1.8/2.5/3.3	3.63	V	
Output Load	L_CMOS		15		pF	
Current Consumption	Icc			10	mA	1MHz ⩽ Freq. ＜ 40MHz
				20		40MHz ⩽ Freq. ⩽ 54MHz
Duty Cycle	SYM	45		55	%	50 % Vdd level, L_CMOS ⩽ 15 pF
Rise / Fall Time	T_R / T_F			5	nS	10% Vdd to 90% Level
Start-up Time	T_str			5	mS	To 90% of Final Amplitude
High output voltage	V_{OH}	0.9Vdd			V	
Low output voltage	V_{OL}			0.1Vdd	V	
Enable Voltage High (Logic 1)	V_{IH}	0.7Vdd			V	Output will be disable if OE is Logic 0 Output will be enable if OE is Logic 1 or open
Enable Voltage Low (Logic 0)	V_{IL}			0.3Vdd	V	
Aging	f_age			3	ppm	1st. Year at 25°C

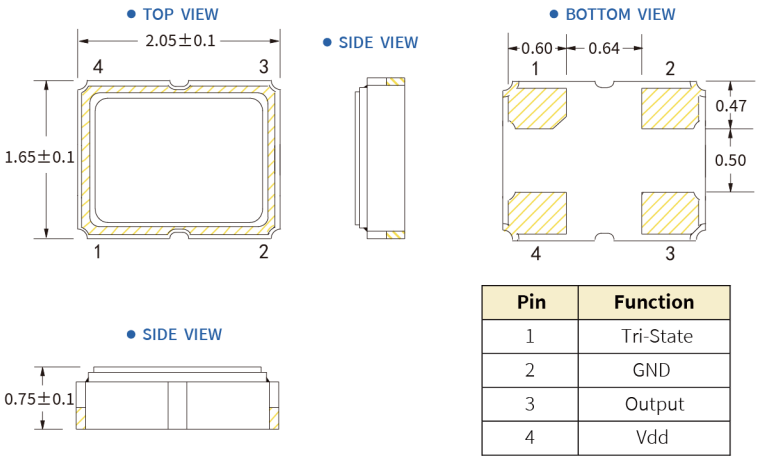
Frequency Stability & Operating Temperature Range

Temp. \ FT	±20ppm	±25ppm	±30ppm	±50ppm
-20°C to +70°C	△	★	★	★
-40°C to +85°C		△	★	★

★: Available △: Conditional

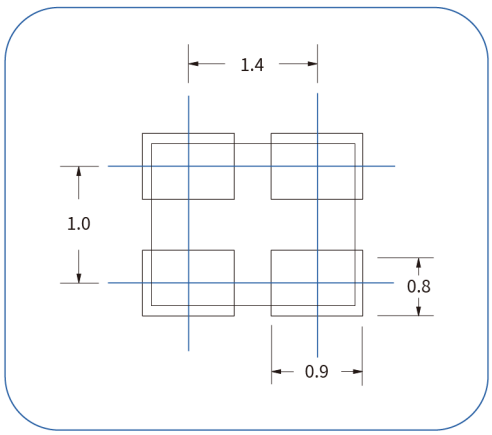
All condition: Include 25°C tolerance, operating temperature range , input voltage change, aging, load change.

Dimensions (UNIT:mm)



Pin	Function
1	Tri-State
2	GND
3	Output
4	Vdd

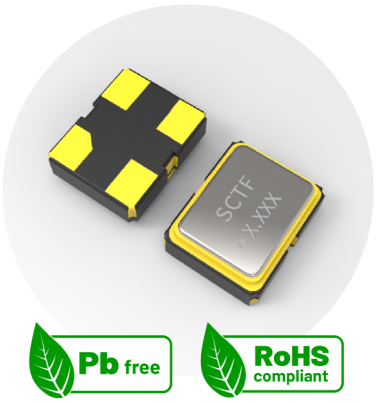
Solder pad layout (UNIT:mm)



2C Series 2.5 x 2.0 mm SMD Crystal Oscillator

Feature

- Ultra Miniature Ceramic surface mount with Metal Lid
- CMOS compatible logic levels
- Tri-state function available
- Supply voltage range : 1.62V ~ 3.63V(Compatible with 1.8V, 2.5V, 3.3V)
- RoHS Compliant / Pb Free



Applications

- Wireless Devices
- Internet of Things (IoT) devices
- Ethernet/Gigabit Ethernet
- Audio, Video, Gaming products
- Micro base station

Electrical Specifications

Item	Symb.	Min.	Typ.	Max.	Unit	Notes
Frequency Range	Freq.	1.000		54.000	MHz	
Operating Temperature	T_use	-20		+70	°C	
		-40		+85	°C	
StorageTemperature Range	T_stg	-55		+125	°C	
Supply Voltage	Vdd	1.62	1.8/2.5/3.3	3.63	V	
Output Load	L_CMOS		15		pF	
Current Consumption	Icc			10	mA	1MHz ⩽ Freq. ＜ 40MHz
				20		40MHz ⩽ Freq. ⩽ 54MHz
Duty Cycle	SYM	45		55	%	50 % Vdd level, L_CMOS ⩽ 15 pF
Rise / Fall Time	T_R / T_F			5	nS	10% Vdd to 90% Level
Start-up Time	T_str			5	mS	To 90% of Final Amplitude
High output voltage	V_{OH}	0.9Vdd			V	
Low output voltage	V_{OL}			0.1Vdd	V	
Enable Voltage High (Logic 1)	V_{IH}	0.7Vdd			V	Output will be disable if OE is Logic 0 Output will be enable if OE is Logic 1 or open
Enable Voltage Low (Logic 0)	V_{IL}			0.3Vdd	V	
Aging	f_age			3	ppm	1st. Year at 25°C

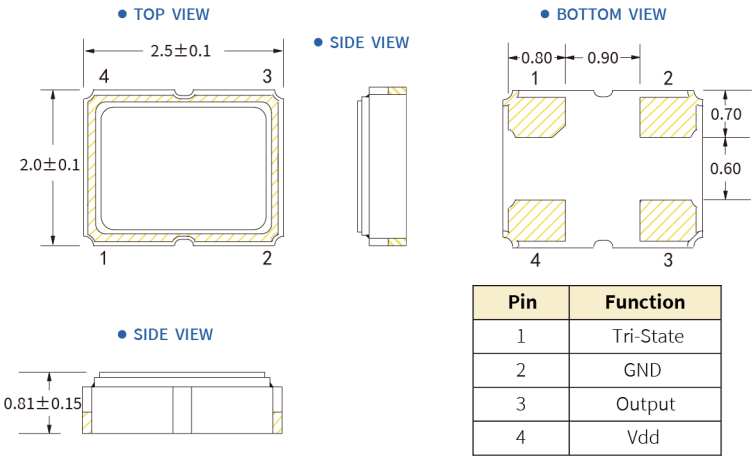
Frequency Stability & Operating Temperature Range

Temp. \ FT	±20ppm	±25ppm	±30ppm	±50ppm
-20°C to +70°C	△	★	★	★
-40°C to +85°C		△	★	★

★: Available △: Conditional

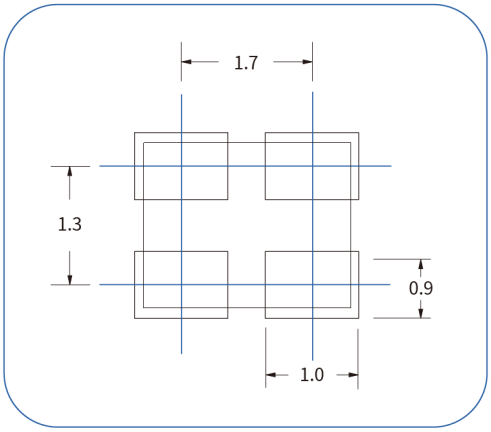
All condition: Include 25°C tolerance, operating temperature range , input voltage change, aging, load change.

Dimensions (UNIT:mm)



Pin	Function
1	Tri-State
2	GND
3	Output
4	Vdd

Solder pad layout (UNIT:mm)



3C Series 3.2 x 2.5 mm SMD Crystal Oscillator

Feature

- Miniature Ceramic surface mount with Metal Lid
- CMOS compatible logic levels
- Tri-state function available
- Supply voltage range : 1.62V ~ 5.5V(Compatible with 1.8V, 2.5V, 3.3V , 5.0V)
- RoHS Compliant / Pb Free

Applications

- Wireless Devices
- Internet of Things (IoT) devices
- Ethernet/Gigabit Ethernet
- Audio, Video, Gaming products
- Micro base station

Electrical Specifications

Item	Symb.	Min.	Typ.	Max.	Unit	Notes
Frequency Range	Freq.	1.000		160.000	MHz	
Operating Temperature	T_use	-20		+70	°C	
		-40		+85	°C	
StorageTemperature Range	T_stg	-55		+125	°C	
Supply Voltage	Vdd	1.62	1.8/2.5/3.3/5.0	5.5	V	
Output Load	L_CMOS		15		pF	
Current Consumption	Icc			10	mA	1MHz ⩽ Freq. < 40MHz
				20		40MHz ⩽ Freq. < 80MHz
				40		80MHz ⩽ Freq. < 160MHz
Duty Cycle	SYM	45		55	%	50 % Vdd level, L_CMOS ⩽ 15 pF
Rise / Fall Time	T_R / T_F			5	nS	10% Vdd to 90% Level
Start-up Time	T_str			5	mS	To 90% of Final Amplitude
High output voltage	V_{OH}	0.9Vdd			V	
Low output voltage	V_{OL}			0.1Vdd	V	
Enable Voltage High (Logic 1)	V_{IH}	0.7Vdd			V	Output will be disable if OE is Logic 0 Output will be enable if OE is Logic 1 or open
Enable Voltage Low (Logic 0)	V_{IL}			0.3Vdd	V	
Aging	f_age			3	ppm	1st. Year at 25°C

Frequency Stability & Operating Temperature Range

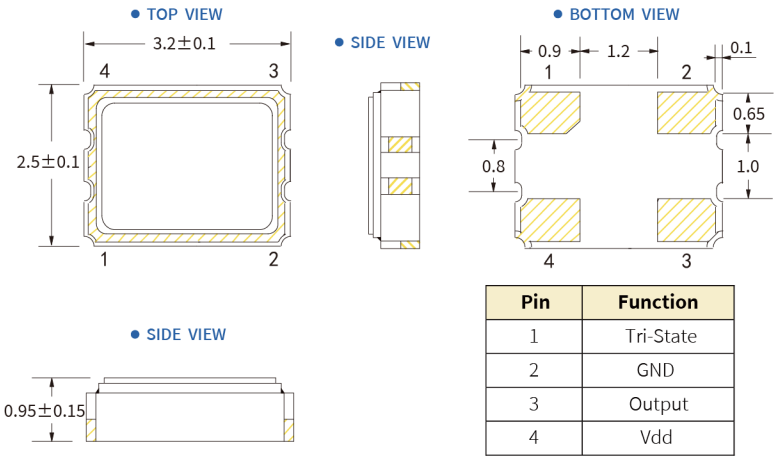
FT / Temp.	±20ppm	±25ppm	±30ppm	±50ppm
-20°C to +70°C	△	★	★	★
-40°C to +85°C		△	★	★

★: Available △: Conditional

All condition: Include 25°C tolerance, operating temperature range , input voltage change, aging, load change.

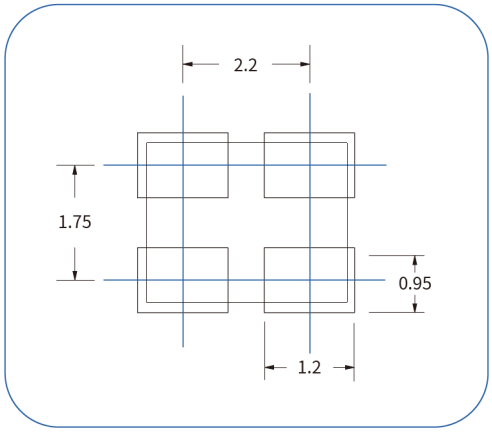
★: Available △: Conditional

Dimensions (UNIT:mm)



Pin	Function
1	Tri-State
2	GND
3	Output
4	Vdd

Solder pad layout (UNIT:mm)



5C Series 5.0 x 3.2 mm SMD Crystal Oscillator

Feature

- Ceramic surface mount with Metal Lid
- CMOS compatible logic levels
- Tri-state function available
- Supply voltage range : 1.62V ~ 5.5V(Compatible with 1.8V, 2.5V, 3.3V , 5.0V)
- RoHS Compliant / Pb Free

Applications

- Wireless Devices
- Internet of Things (IoT) devices
- Ethernet/Gigabit Ethernet
- Audio, Video, Gaming products
- Micro base station

Electrical Specifications

Item	Symb.	Min.	Typ.	Max.	Unit	Notes
Frequency Range	Freq.	1.000		160.000	MHz	
Operating Temperature	T_use	-20		+70	°C	
		-40		+85	°C	
StorageTemperature Range	T_stg	-55		+125	°C	
Supply Voltage	Vdd	1.62	1.8/2.5/3.3/5.0	5.5	V	
Output Load	L_CMOS		15		pF	
Current Consumption	Icc			10	mA	1MHz ⩽ Freq. ＜ 40MHz
				20		40MHz ⩽ Freq. ＜ 80MHz
				40		80MHz ⩽ Freq. ＜ 160MHz
Duty Cycle	SYM	45		55	%	50 % Vdd level, L_CMOS ⩽ 15 pF
Rise / Fall Time	T_R / T_F			5	nS	10% Vdd to 90% Level
Start-up Time	T_str			5	mS	To 90% of Final Amplitude
High output voltage	V_{OH}	0.9Vdd			V	
Low output voltage	V_{OL}			0.1Vdd	V	
Enable Voltage High (Logic 1)	V_{IH}	0.7Vdd			V	Output will be disable if OE is Logic 0 Output will be enable if OE is Logic 1 or open
Enable Voltage Low (Logic 0)	V_{IL}			0.3Vdd	V	
Aging	f_age			3	ppm	1st. Year at 25°C

Frequency Stability & Operating Temperature Range

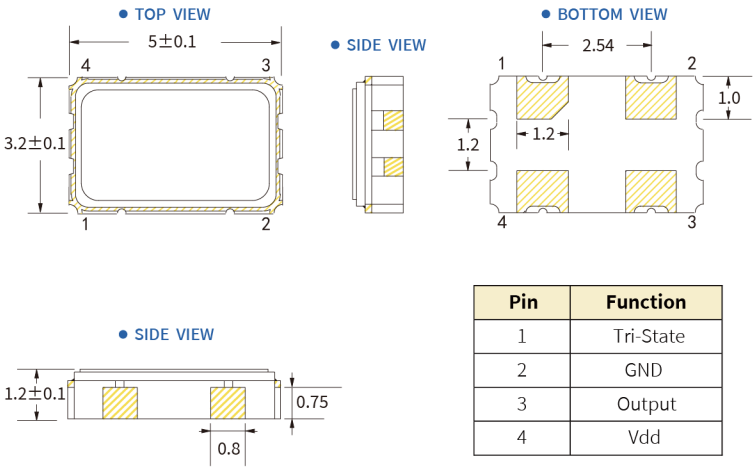
Temp. \ FT	±20ppm	±25ppm	±30ppm	±50ppm
-20°C to +70°C	△	★	★	★
-40°C to +85°C		△	★	★

★: Available △: Conditional

All condition: Include 25°C tolerance, operating temperature range , input voltage change, aging, load change.

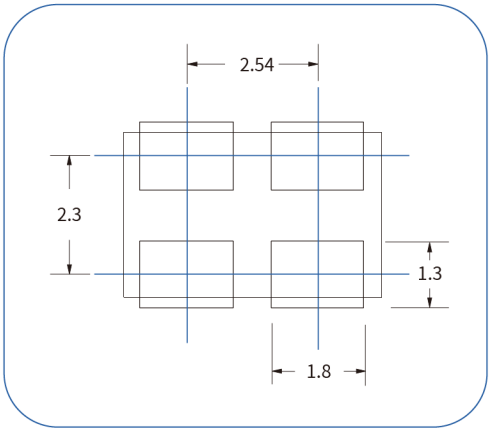
★: Available △: Conditional

Dimensions (UNIT:mm)



Pin	Function
1	Tri-State
2	GND
3	Output
4	Vdd

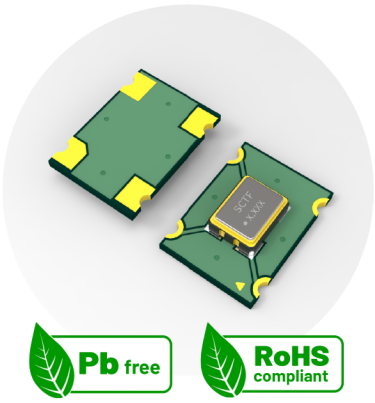
Solder pad layout (UNIT:mm)



5CP Series 5.0 x 3.2 mm SMD Crystal Oscillator

Feature

- Cost-effective design
- CMOS compatible logic levels
- Tri-state function available
- Supply voltage range : 1.62V ~ 5.5V(Compatible with 1.8V, 2.5V, 3.3V , 5.0V)
- RoHS Compliant / Pb Free



Applications

- Wireless Devices
- Internet of Things (IoT) devices
- Ethernet/Gigabit Ethernet
- Audio, Video, Gaming products
- Micro base station

Electrical Specifications

Item	Symb.	Min.	Typ.	Max.	Unit	Notes
Frequency Range	Freq.	1.000		160.000	MHz	
Operating Temperature	T_use	-20		+70	°C	
		-40		+85	°C	
StorageTemperature Range	T_stg	-55		+125	°C	
Supply Voltage	Vdd	1.62	1.8/2.5/3.3/5.0	5.5	V	
Output Load	L_CMOS		15		pF	
Current Consumption	Icc			10	mA	1MHz ⩽ Freq. ＜ 40MHz
				20		40MHz ⩽ Freq. ＜ 80MHz
				40		80MHz ⩽ Freq. ＜ 160MHz
Duty Cycle	SYM	45		55	%	50 % Vdd level, L_CMOS ⩽ 15 pF
Rise / Fall Time	T_R / T_F			5	nS	10% Vdd to 90% Level
Start-up Time	T_str			5	mS	To 90% of Final Amplitude
High output voltage	V_{OH}	0.9Vdd			V	
Low output voltage	V_{OL}			0.1Vdd	V	
Enable Voltage High (Logic 1)	V_{IH}	0.7Vdd			V	Output will be disable if OE is Logic 0 Output will be enable if OE is Logic 1 or open
Enable Voltage Low (Logic 0)	V_{IL}			0.3Vdd	V	
Aging	f_age			3	ppm	1st. Year at 25°C

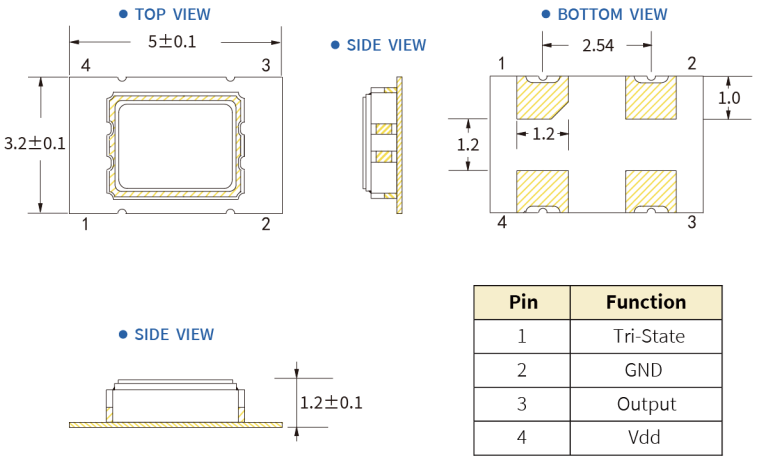
Frequency Stability & Operating Temperature Range

FT / Temp.	±20ppm	±25ppm	±30ppm	±50ppm
-20°C to +70°C	△	★	★	★
-40°C to +85°C		△	★	★

★: Available △: Conditional

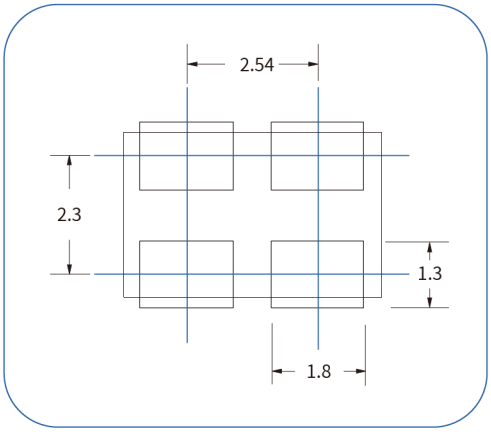
All condition: Include 25°C tolerance, operating temperature range , input voltage change, aging, load change.

Dimensions (UNIT:mm)



Pin	Function
1	Tri-State
2	GND
3	Output
4	Vdd

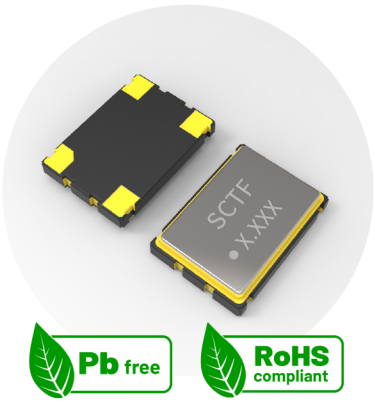
Solder pad layout (UNIT:mm)



7C Series 7.0 x 5.0 mm SMD Crystal Oscillator

Feature

- Cost-effective design
- CMOS compatible logic levels
- Tri-state function available
- Supply voltage range : 1.62V ~ 5.5V(Compatible with 1.8V, 2.5V, 3.3V , 5.0V)
- RoHS Compliant / Pb Free



Applications

- Wireless Devices
- Internet of Things (IoT) devices
- Ethernet/Gigabit Ethernet
- Audio, Video, Gaming products
- Micro base station

Electrical Specifications

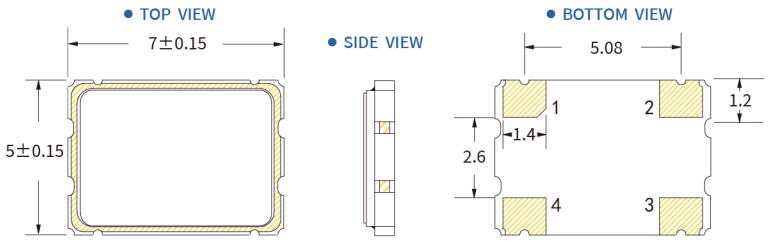
Item	Symb.	Min.	Typ.	Max.	Unit	Notes
Frequency Range	Freq.	1.000		160.000	MHz	
Operating Temperature	T_use	-20		+70	°C	
		-40		+85	°C	
StorageTemperature Range	T_stg	-55		+125	°C	
Supply Voltage	Vdd	1.62	1.8/2.5/3.3/5.0	5.5	V	
Output Load	L_CMOS		15		pF	
Current Consumption	Icc			10	mA	1MHz ⩽ Freq. < 40MHz
				20		40MHz ⩽ Freq. < 80MHz
				40		80MHz ⩽ Freq. < 160MHz
Duty Cycle	SYM	45		55	%	50 % Vdd level, L_CMOS ⩽ 15 pF
Rise / Fall Time	T_R / T_F			5	nS	10% Vdd to 90% Level
Start-up Time	T_str			5	mS	To 90% of Final Amplitude
High output voltage	V_{OH}	0.9Vdd			V	
Low output voltage	V_{OL}			0.1Vdd	V	
Enable Voltage High (Logic 1)	V_{IH}	0.7Vdd			V	Output will be disable if OE is Logic 0 Output will be enable if OE is Logic 1 or open
Enable Voltage Low (Logic 0)	V_{IL}			0.3Vdd	V	
Aging	f_age			3	ppm	1st. Year at 25°C

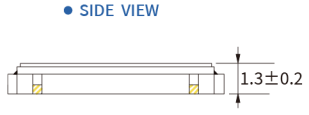
Frequency Stability & Operating Temperature Range

Temp. \ FT	±20ppm	±25ppm	±30ppm	±50ppm
-20°C to +70°C	△	★	★	★
-40°C to +85°C		△	★	★

All condition: Include 25°C tolerance, operating temperature range , input voltage change, aging, load change.

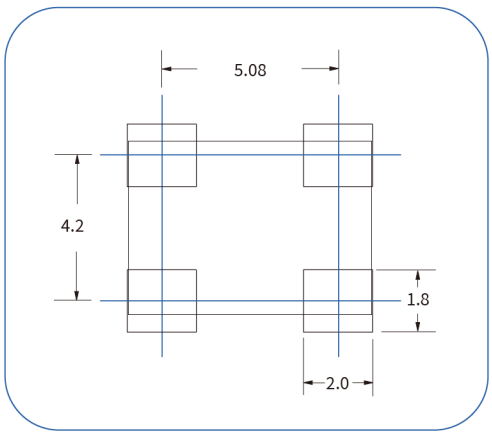
Dimensions (UNIT:mm)





Pin	Function
1	Tri-State
2	GND
3	Output
4	Vdd

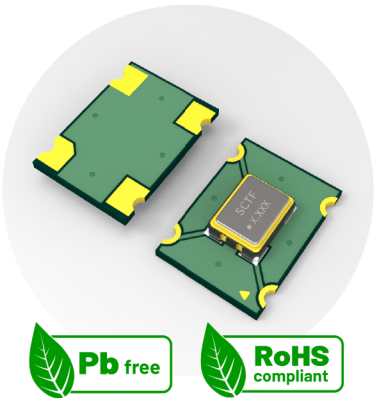
Solder pad layout (UNIT:mm)



7CP Series 7.0 x 5.0 mm SMD Crystal Oscillator

Feature

- Cost-effective design
- CMOS compatible logic levels
- Tri-state function available
- Supply voltage range : 1.62V ~ 5.5V(Compatible with 1.8V, 2.5V, 3.3V , 5.0V)
- RoHS Compliant / Pb Free



Applications

- Wireless Devices
- Internet of Things (IoT) devices
- Ethernet/Gigabit Ethernet
- Audio, Video, Gaming products
- Micro base station

Electrical Specifications

Item	Symb.	Min.	Typ.	Max.	Unit	Notes
Frequency Range	Freq.	1.000		160.000	MHz	
Operating Temperature	T_use	-20		+70	°C	
		-40		+85	°C	
StorageTemperature Range	T_stg	-55		+125	°C	
Supply Voltage	Vdd	1.62	1.8/2.5/3.3/5.0	5.5	V	
Output Load	L_CMOS		15		pF	
Current Consumption	Icc			10	mA	1MHz ⩽ Freq. ＜ 40MHz
				20		40MHz ⩽ Freq. ＜ 80MHz
				40		80MHz ⩽ Freq. ＜ 160MHz
Duty Cycle	SYM	45		55	%	50 % Vdd level, L_CMOS ⩽ 15 pF
Rise / Fall Time	T_R / T_F			5	nS	10% Vdd to 90% Level
Start-up Time	T_str			5	mS	To 90% of Final Amplitude
High output voltage	V_{OH}	0.9Vdd			V	
Low output voltage	V_{OL}			0.1Vdd	V	
Enable Voltage High (Logic 1)	V_{IH}	0.7Vdd			V	Output will be disable if OE is Logic 0 Output will be enable if OE is Logic 1 or open
Enable Voltage Low (Logic 0)	V_{IL}			0.3Vdd	V	
Aging	f_age			3	ppm	1st. Year at 25°C

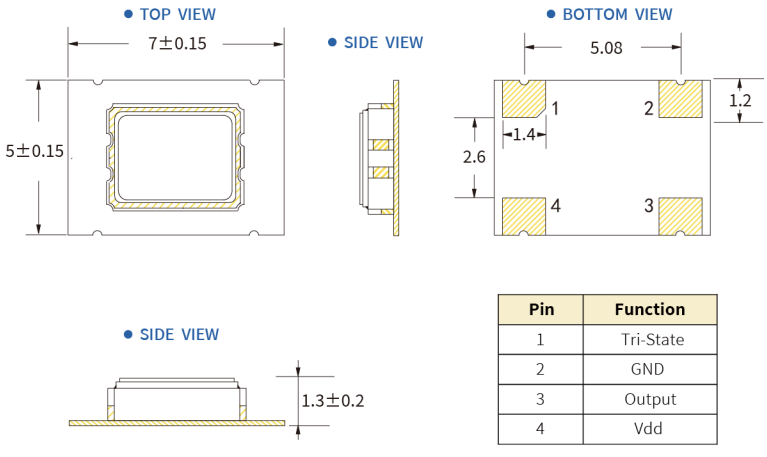
Frequency Stability & Operating Temperature Range

FT / Temp.	±20ppm	±25ppm	±30ppm	±50ppm
-20°C to +70°C	△	★	★	★
-40°C to +85°C		△	★	★

★: Available △: Conditional

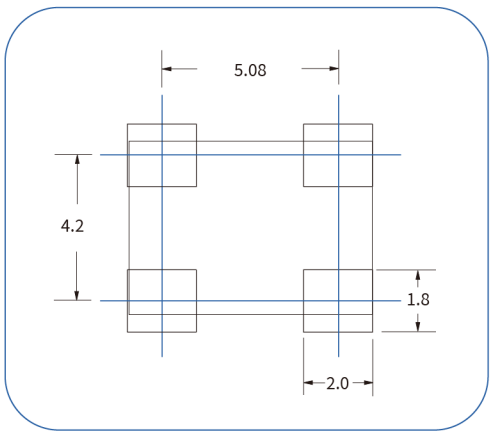
All condition: Include 25°C tolerance, operating temperature range , input voltage change, aging, load change.

Dimensions (UNIT:mm)



Pin	Function
1	Tri-State
2	GND
3	Output
4	Vdd

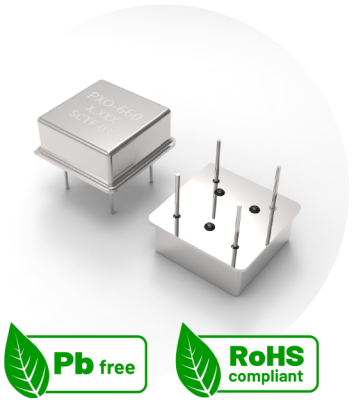
Solder pad layout (UNIT:mm)



OA Series HALF SIZE Crystal Oscillator

Feature

- CMOS compatible logic levels
- Tri-state function available
- Supply voltage range : 1.62V ~ 5.5V(Compatible with 1.8V, 2.5V, 3.3V , 5.0V)
- RoHS Compliant / Pb Free



Applications

- Wireless Devices
- Internet of Things (IoT) devices
- Ethernet/Gigabit Ethernet
- Audio, Video, Gaming products
- Micro base station

Electrical Specifications

Item	Symb.	Min.	Typ.	Max.	Unit	Notes
Frequency Range	Freq.	1.000		100.000	MHz	
Operating Temperature	T_use	-20		+70	℃	
		-40		+85	℃	
StorageTemperature Range	T_stg	-55		+125	℃	
Supply Voltage	Vdd	1.62	1.8/2.5/3.3/5.0	5.5	V	
Output Load	L_CMOS		15		pF	
Current Consumption	Icc			25	mA	1MHz ⩽ Freq. ＜ 40MHz
				60		40MHz ⩽ Freq. ＜ 80MHz
				80		80MHz ⩽ Freq. ＜ 160MHz
Duty Cycle	SYM	40		60	%	50 % Vdd level, L_CMOS ⩽ 15 pF
Rise / Fall Time	T_R / T_F			5	nS	10% Vdd to 90% Level
Start-up Time	T_str			10	mS	To 90% of Final Amplitude
High output voltage	V_{OH}	0.9Vdd			V	
Low output voltage	V_{OL}			0.1Vdd	V	
Enable Voltage High (Logic 1)	V_{IH}	0.7Vdd			V	Output will be disable if OE is Logic 0 Output will be enable if OE is Logic 1 or open
Enable Voltage Low (Logic 0)	V_{IL}			0.3Vdd	V	
Aging	f_age			3	ppm	1st. Year at 25°C

Frequency Stability & Operating Temperature Range

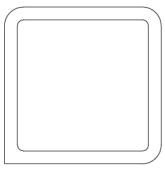
Temp. \ FT	±30ppm	±50ppm
-20°C to +70°C	★	★
-40°C to +85°C	△	★

★: Available △: Conditional

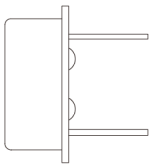
All condition: Include 25°C tolerance, operating temperature range , input voltage change, aging, load change.

Dimensions (UNIT:mm)

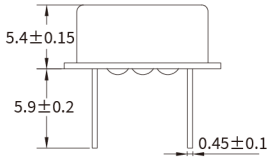
● TOP VIEW



● SIDE VIEW

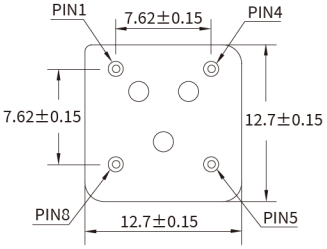


● SIDE VIEW



PIN	FUNCTION
1	NC/Tri-State
4	GND
5	Output
8	Vdd

Solder pad layout (UNIT:mm)



Notes:

NC: If the product does not contain Tri-state function,no matter how PIN1 connected, the product is working properly.

Tri-state: PIN 1 connected to Vdd or floating, the product is working properly;connected to GND,stops working.

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OB Series FULL SIZE Crystal Oscillator

Feature

- CMOS compatible logic levels
- Tri-state function available
- Supply voltage range : 1.62V ~ 5.5V(Compatible with 1.8V, 2.5V, 3.3V , 5.0V)
- RoHS Compliant / Pb Free

Applications

- Wireless Devices
- Internet of Things (IoT) devices
- Ethernet/Gigabit Ethernet
- Audio, Video, Gaming products
- Micro base station

Electrical Specifications

Item	Symb.	Min.	Typ.	Max.	Unit	Notes
Frequency Range	Freq.	1.000		100.000	MHz	
Operating Temperature	T_use	-20		+70	°C	
		-40		+85	°C	
StorageTemperature Range	T_stg	-55		+125	°C	
Supply Voltage	Vdd	1.62	1.8/2.5/3.3/5.0	5.5	V	
Output Load	L_CMOS		15		pF	
Current Consumption	Icc			25	mA	1MHz ⩽ Freq. ＜ 40MHz
				60		40MHz ⩽ Freq. ＜ 80MHz
				80		80MHz ⩽ Freq. ＜ 160MHz
Duty Cycle	SYM	40		60	%	50 % Vdd level, L_CMOS ⩽ 15 pF
Rise / Fall Time	T_R / T_F			5	nS	10% Vdd to 90% Level
Start-up Time	T_str			10	mS	To 90% of Final Amplitude
High output voltage	V_{OH}	0.9Vdd			V	
Low output voltage	V_{OL}			0.1Vdd	V	
Enable Voltage High (Logic 1)	V_{IH}	0.7Vdd			V	Output will be disable if OE is Logic 0 Output will be enable if OE is Logic 1 or open
Enable Voltage Low (Logic 0)	V_{IL}			0.3Vdd	V	
Aging	f_age			3	ppm	1st. Year at 25°C

Frequency Stability & Operating Temperature Range

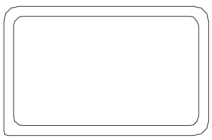
Temp. \ FT	±30ppm	±50ppm
-20°C to +70°C	★	★
-40°C to +85°C	△	★

★: Available △: Conditional

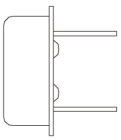
All condition: Include 25°C tolerance, operating temperature range , input voltage change, aging, load change.

Dimensions (UNIT:mm)

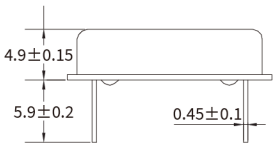
● TOP VIEW



● SIDE VIEW

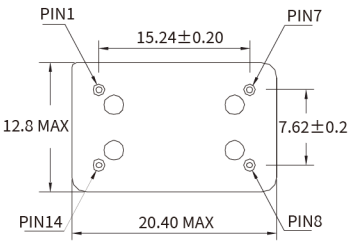


● SIDE VIEW



PIN	FUNCTION
1	NC/Tri-State
4	GND
5	Output
8	Vdd

Solder pad layout (UNIT:mm)



Notes:

NC: If the product does not contain Tri-state function,no matter how PIN1 connected, the product is working properly.

Tri-state: PIN 1 connected to Vdd or floating, the product is working properly;connected to GND,stops working.

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