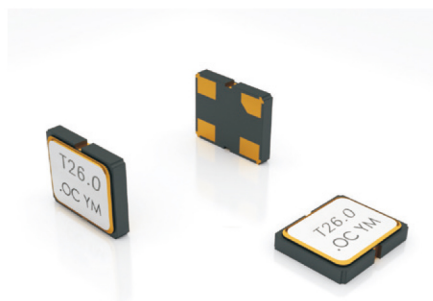


4.3 XO2016

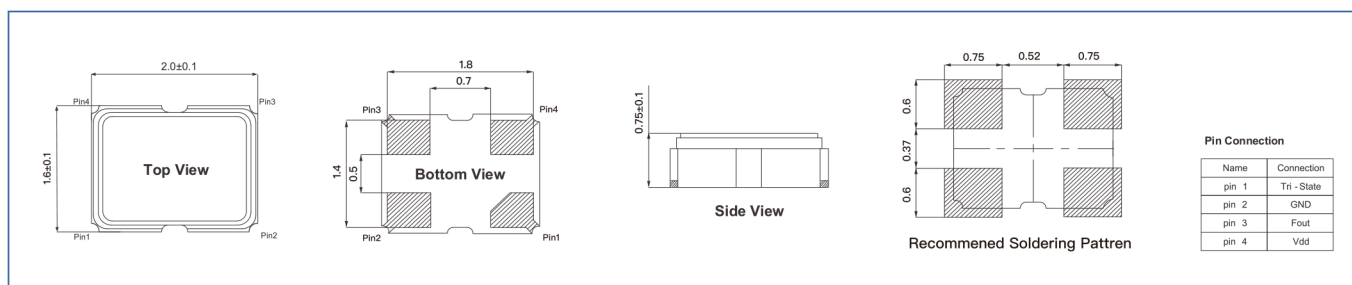
2.0x1.6mm
CMOS Crystal Oscillator



FEATURES AND APPLICATIONS

- External Dimensions: 2.0x1.6x0.75 mm
- Small Size, High Reliability
- Wide Supply Voltage: 1.7-3.6V
- Widely applied in industrial communication, navigation, radar, and other fields
- AEC-Q100&AEC-Q200 compliant

DIMENSIONS



ELECTRICAL SPECIFICATION

Specifications		3.3V		2.5V		1.8V		Unit
		Min.	Max.	Min.	Max.	Min.	Max.	
Operating Voltage(VDD)		VDD-5%	VDD+5%	VDD-5%	VDD+5%	VDD-5%	VDD+5%	V
Output Frequency		1	125	1	125	1	125	MHz
Supply Current	At 15pF Load	—	25	—	25	—	20	mA
	When no load is provided, 1MHz≤F _o <10MHz	—	1.0	—	1.0	—	0.75	mA
	When no load is provided, 10MHz≤F _o <20MHz	—	1.0	—	1.0	—	0.75	mA
	When no load is provided, 20MHz≤F _o <80MHz	—	1.3	—	1.3	—	1.0	mA
	When no load is provided, 80MHz≤F _o <125MHz	—	6	—	6	—	3	mA
Duty Cycle		45	55	45	55	45	55	%
Output Level	VoH	2.97	—	2.25	—	1.62	—	V
	VoL	—	0.33	—	0.25	—	0.18	
Transition Time: Rise/Fall Time+	1.25MHz≤F _o <10MHz	—	4	—	5	—	6	nSec
	10MHz≤F _o <20MHz	—	4	—	5	—	6	nSec
	20MHz≤F _o <80MHz	—	4	—	5	—	6	nSec
Start-up time		—	5	—	5	—	5	mSec
Tri-state (connect to Pin1)	On (High Level or Floating)	0.7VDD	—	0.7VDD	—	0.7VDD	—	V
	Off(Low Level or Ground)	—	0.3VDD	—	0.3VDD	—	0.3VDD	
Output Load		15		15		15		pF
Standby Current		—	100	—	100	—	100	uA
Aging(@25°C,the first year)		—	±3	—	±3	—	±3	ppm
Storage Temperature		-55	125	-55	125	-55	125	°C
Jitter(Vp-p)		—	40	—	40	—	40	pSec
Phase jitter Root-mean-square(12KHz~20MHz)		—	1	—	1	—	1	pSec

FREQ. STABILITY vs. TEMP. RANGE

Temp.(°C)	ppm	±20	±25	±50
-10 ~ +60		○	○	○
-20 ~ +70		○	○	○
-40 ~ +85		△	○	○
-40 ~ +125		×	×	○

*○: Available △: Available on condition X: Unavailable

Note: Not all components are available. We can supply other specifications on demand.