



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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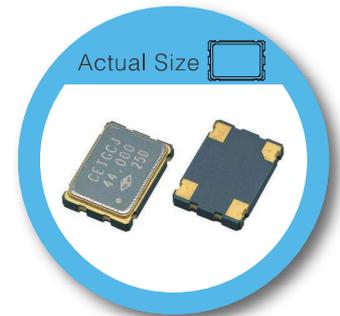
OC Type 7.0 x 5.0 mm SMD Crystal Oscillator

FEATURE

- Typical 7.0 x 5.0 x 1.3 mm ceramic SMD package.
- Output frequency up to 166MHz
- Tr-state enable/disable.

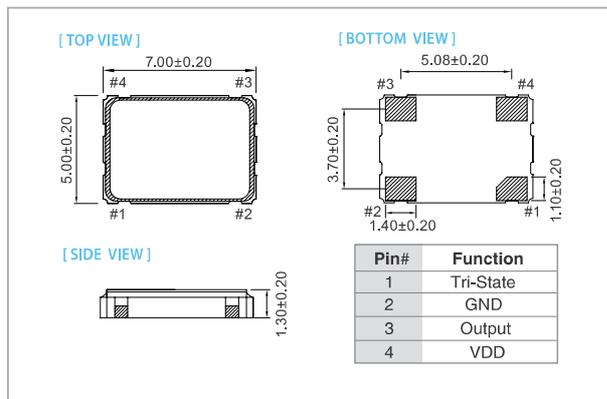
TYPICAL APPLICATION

- xDSL, WLAN, Fiber/10G-Bit Ethernet
- Notebook, PDA
- PC main board, VGA card

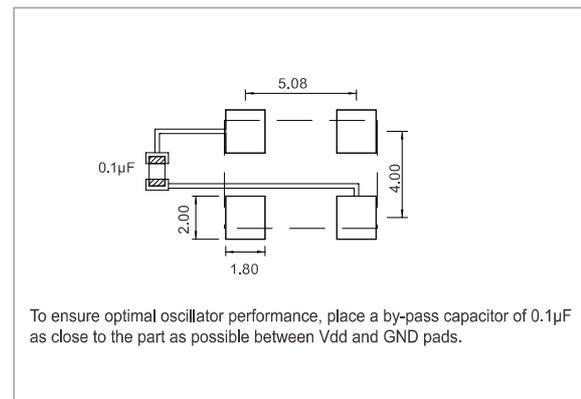


RoHS Compliant

DIMENSION (mm)



SOLDER PAD LAYOUT (mm)



ELECTRICAL SPECIFICATION

Parameter	3.3V		2.5V		1.8V		unit
	Min.	Max.	Min.	Max.	Min.	Max.	
Supply Voltage Variation(V_{DD})	V _{DD} -10%	V _{DD} +10%	V _{DD} -10%	V _{DD} +10%	V _{DD} -10%	V _{DD} +10%	V
Frequency Range	0.0137	166	0.0137	133	0.0137	125	MHz
Standard Frequency	2.048, 25, 26, 27, 50, 66, 667, 100, 125						
Supply Current							mA
13.7 kHz ≤ Fo ≤ 70 kHz	—	1	—	1	—	1	
0.3125 MHz ≤ Fo < 35.328 MHz (A1)	—	10	—	8	—	7	
30 MHz ≤ Fo < 75 MHz	—	20	—	18	—	15	
75 MHz ≤ Fo < 133 MHz	—	35	—	30	—	25	
133 MHz ≤ Fo	—	45	—	40	—	—	
Output Level (CMOS) Output High (Logic "1")	2.97	—	2.25	—	1.62	—	V
Output Low (Logic "0")	—	0.33	—	0.25	—	0.18	
Transition Time: Rise/Fall Time							nSec
13.7 kHz ≤ Fo ≤ 70 kHz	—	50	—	50	—	50	
0.3125 MHz ≤ Fo < 100 MHz	—	5	—	5	—	5	
100 MHz ≤ Fo	—	3	—	3	—	3	
Start Time	—	5	—	5	—	5	mSec
Output Drive Capability (CL)	—	15	—	15	—	15	pF
Tri-State (Input to Pin1) Enable (High voltage or floating)	2.31	—	1.75	—	1.26	—	V
Disable (Low voltage or GND)	—	0.99	—	0.75	—	0.54	
Period Jitter(Pk-Pk)	—	40	—	40	—	40	pSec
RMS Phase Jitter (Integrated 12 kHz~20 MHz)	—	1	—	1	—	1	pSec
Standby Current	—	10	—	10	—	10	µA
Aging (@ 25°C 1st year)	—	±3	—	±3	—	±3	ppm
Storage Temp. Range	-55	125	-55	125	-55	125	°C

Standard frequencies are frequencies which the crystal has been designed and does not imply a stock position.

+ Transition times are measured between 10% and 90% of V_{DD}, with an output load of 15pF.

FREQ. STABILITY vs. TEMP. RANGE

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

* ○: Available △: Conditional X: Not available

* Inclusive of calibration @ 25 °C, operating temperature range, input voltage variation, load variation, aging (1st year), shock, and vibration

Note: not all combination of options are available. Other specifications may be available upon request.

Rev(30)04/2017

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