

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”) Output Low (Logic “0”)	2.97	–	2.25	–	1.62	–	V
	–	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) Disable (Low voltage or GND)	2.31	–	1.75	–	1.26	–	V
	–	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.

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