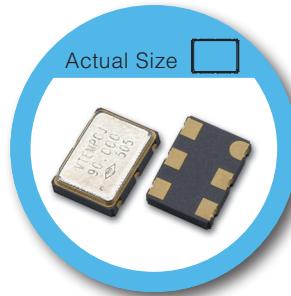


7.0 x 5.0 mm SMD Voltage Controlled Crystal Oscillator – VT Type Multiplier

FEATURE

- Typical 7.0 x 5.0 x 1.6 mm 6 pads ceramic SMD package.
- Tight symmetry (45 to 55%) available.
- Packing: Tape & Reel, 1000/3000pcs per Reel.

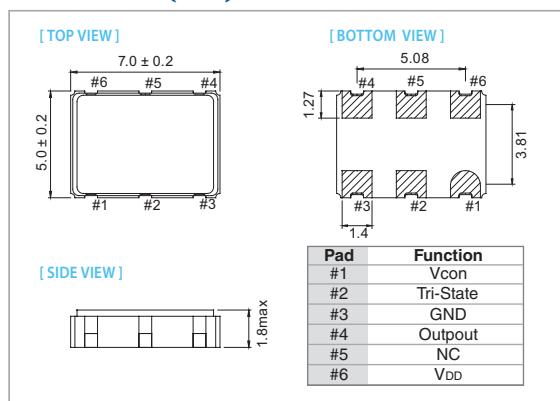


RoHS Compliant Standard

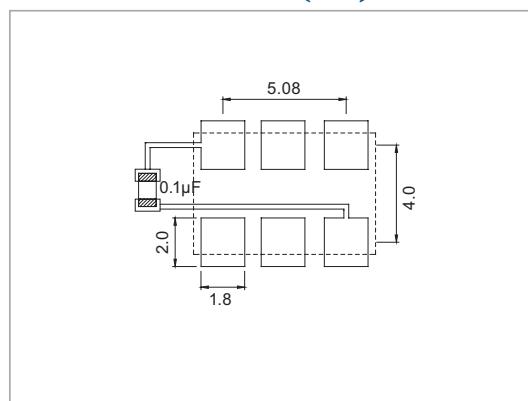
TYPICAL APPLICATION

- Set-top Box, HDTV
- Wimax/WLAN
- xDSL/ VoIP, Cable modem

DIMENSION (mm)



SOLDER PAD LAYOUT (mm)



ELECTRICAL SPECIFICATION

Parameter	3.3 V		Unit
	Min.	Max.	
Supply Voltage Variation (V_{DD}) 10%	2.97	3.63	V
Frequency Range	60	200	MHz
Absolute Pulling Range (APR)	±50	—	ppm
Control Voltage Range	0.3	3.0	V
Supply Current	—	40	mA
60 MHz ≤ F _o < 160 MHz	—	40	
160 MHz ≤ F _o ≤ 200 MHz	—	50	
Output Level (CMOS)	90% V _{DD}	—	V
Output High (Logic "1")	—	10% V _{DD}	
Output Low (Logic "0")	—	10% V _{DD}	
Transition Time: Rise/Fall Time+	—	2	nSec
60 MHz ≤ F _o ≤ 200 MHz	—	2	mSec
Start Time	—	—	
Tri-State (Input to Pin 2)	0.7 V _{DD}	—	V
Enable	—	0.3 V _{DD}	
Disable	—	150	pSec
Absolute Clock Period Jitter	—	4	
RMS Phase Jitter (Integrated 12KHz~20MHz)	—	10	%
Linearity	—	—	
Modulation Bandwidth (BW)	25	—	KHz
Input Impedance	2000	—	kΩ
Aging	—	±3	ppm
Storage Temp. Range	-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	±25	±50
-10 ~ +60	○	○	
-20 ~ +70	○	○	
-40 ~ +85	△	○	

* ○: Available △:Conditional X: Not available

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