

# OT Type

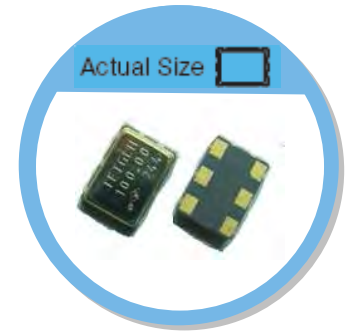
## 7.0 x 5.0 mm SMD HCSL Crystal Oscillator

### FEATURE

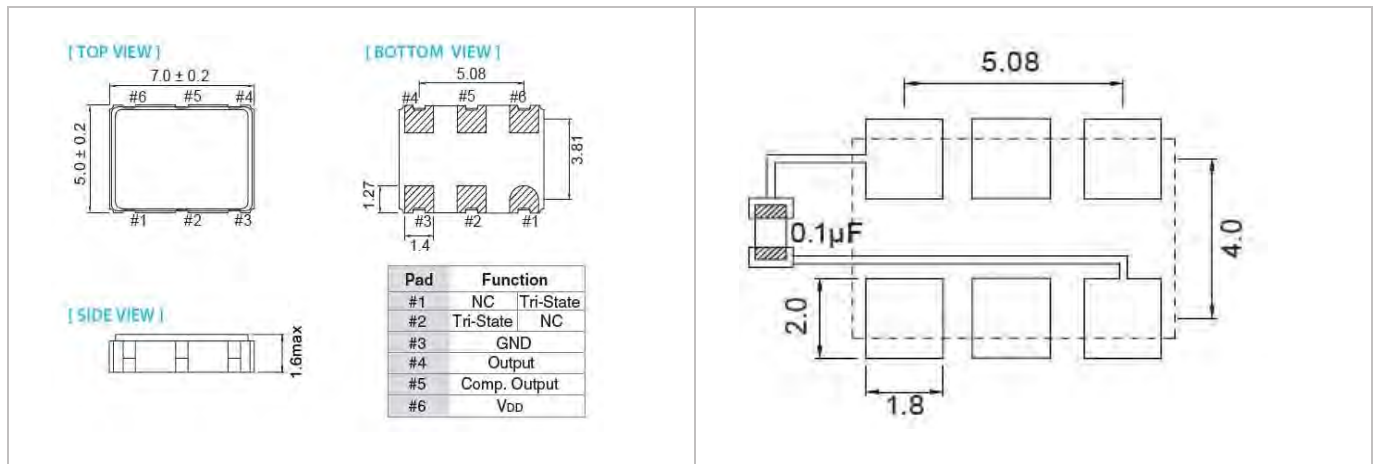
- Typical 7.0 x 5.0 x 1.5 mm hermetically sealed ceramic package.
- Very low jitter performance : Max. 0.5 pS RMS from 12k-20MHz.
- Tight symmetry (45 to 55%) available.
- Tri-state enable/disable.
- High-speed current steering logic (HCSL) output.

### TYPICAL APPLICATION

- PCI-Express



RoHS Compliant Standard



### ELECTRICAL SPECIFICATION

Parameter	HCSL				Unit
	3.3V		2.5V		
	Min.	Max.	Min.	Max.	
Supply Voltage Variation (VDD)	VDD-5%	VDD+5%	VDD-5%	VDD+5%	V
Frequency Range	90	125	90	125	MHz
Standard Frequency	100				
Supply Current					
90MHz ≤ F0 ≤ 125MHz	-	30	-	30	mA
Output Level					
Output High (Logic "1")	0.6	-	0.58	-	V
Output Low (Logic "0")	-	0.15	-	0.15	
Transition Time: Rise/Fall Time+	-	0.5	-	0.5	nSec
Start Time	-	3	-	3	mSec
Tri-State (Input to Pin 2 or Pin 1)					
Enable	0.7VDD	-	0.7VDD	-	V
Disable	-	0.3VDD	-	0.3VDD	
RMS Phase Jitter (integrated 12KHz ~ 20MHz)					
90MHz ≤ F0 ≤ 125MHz	-	0.5	-	0.5	pSec
Aging	-	±3	-	±3	ppm
Storage Temp. Range	-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 20% and 80% of VDD

### FREQ. STABILITY vs. TEMP. RANGE

Temp. (°C)	ppm	ppm	
		±25	±50
-10~+60		0	0
-20~+70		0	0
-40~+85		△	0

\* O: Available △: Conditional X: Not available

\* Inclusive of calibration @ 25°C, operating temperature range, input voltage variation,