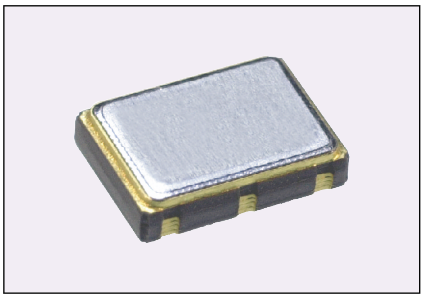
TOYOCOM

Crystal Clock Oscillator



TCO-7116H1A

SMO-N-K LVPECL

Features

- for Gigabit ethernet
- LVPECL Output
- Small size : 7.0(W) X 5.0(D) X 1.8(H)mm
- 3rd OT Oscillation
- Low operation voltage (+3.3V)

Absolute Maximum Ratings

Parameter	Symbol	Rating
Supply voltage	V_{CC}	-0.5 to +7.0 V
Input voltage	V_{IN}	-0.5 to V_{CC} +0.5 V
Output voltage	V_O	-0.5 to V_{CC} +0.5 V
Storage temperature	T_{stg}	-50 to +150 °C
Soldering condition	T_{sol} T	+260°C / 20sec or +230°C / 180sec

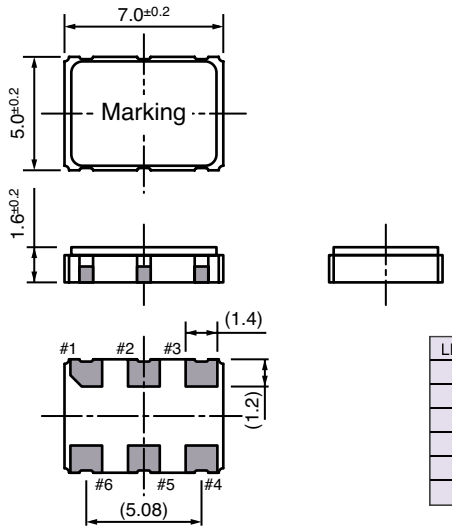
Specifications

Parameter		TCO-7116H1A	Conditions
Frequency	fo	106.25 , 156.25 , 161.1328 MHz	—
Frequency Stability	Δf/fo	±50 ppm max.	(*1)
Operating Temperature	Topr	0 °C to +70 °C	—
Supply Voltage	Vcc	+3.3 V ±5 %	DC
Supply Current	Icc	80mA max.	Vcc= +3.6V
Input Voltage	V_{IH} V_{IL}	V_{IH}=70 % Vcc min. / V_{IL}=20 % Vcc max.	#1:V_{IH} or OPEN ··· Enable #1:V_{IL} or GND ··· Disable
Output Voltage	V_{OH} V_{OL}	V_{OH}= Vcc -1.0 min. / V_{OL}= Vcc -1.6 max.	—
Symmetry	SYM	40 to 60 %	at Outputs Crossing Point
Rise/Fall time	tr/tf	1 ns max.	at 20% to 80% Output Swing
Start-up time	tst	2 ms max.	(*2)

*1 Inclusive of calibration tolerance at +25°C, operating temperature, operating voltage range.

*2 Rise time (0 to +3.14V) of Vcc >150μs

Package Outlines [Dimensions in mm]



LEAD	CONNECTION
#1	E/D Control
#2	N.C.
#3	GND
#4	Out 1 (Positive)
#5	Out 2 (Negative)
#6	Vcc

Footprint [Dimensions in mm]