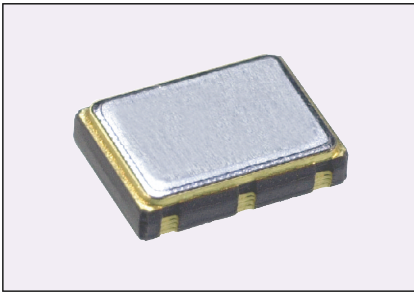


Crystal Clock Oscillator



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)

Specifications

Absolute Maximum Ratings

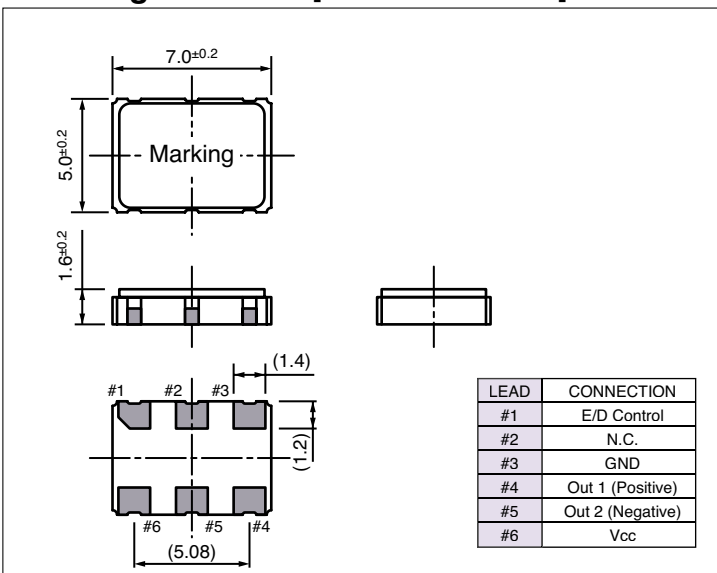
Parameter	Symbol	Rating
Supply voltage	V _{cc}	-0.5 to +7.0 V
Input voltage	V _{IN}	-0.5 to V _{cc} +0.5 V
Output voltage	V _O	-0.5 to V _{cc} +0.5 V
Storage temperature	T _{stg}	-50 to +150 °C
Soldering condition	T _{sol} T	+260°C / 20sec or +230°C / 180sec

Parameter		TCO-7116H1A	Conditions
Frequency	f _o	106.25 , 156.25 , 161.1328 MHz	—
Frequency Stability	Δf/f _o	±50 ppm max.	(*1)
Operating Temperature	T _{opr}	0 °C to +70 °C	—
Supply Voltage	V _{cc}	+3.3 V ±5 %	DC
Supply Current	I _{cc}	80mA max.	V _{cc} = +3.6V
Input Voltage	V _{IH} V _{IL}	V _{IH} =70 % V _{cc} min. / V _{IL} =20 % V _{cc} max.	#1:V _{IH} or OPEN ... Enable #1:V _{IL} or GND ... Disable
Output Voltage	V _{OH} V _{OL}	V _{OH} = V _{cc} -1.0 min. / V _{OL} = V _{cc} -1.6 max.	—
Symmetry	SYM	40 to 60 %	at Outputs Crossing Point
Rise/Fall time	t _r /t _f	1 ns max.	at 20% to 80% Output Swing
Start-up time	t _{st}	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 V_{cc}>150μs

Package Outlines [Dimensions in mm]



Footprint [Dimensions in mm]

