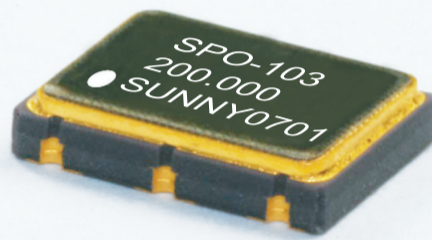


CRYSTAL OSCILLATORS

LVPECL TYPE SPO-10

- Ceramic SMD package
- 3.3 / 2.5 supply voltage
- Differential LVPECL
- Non-multiplied
- Stability to $\pm 20\text{ppm}$
- Tri-state function available
- Reflow soldering is possible
- Available on tape and reel

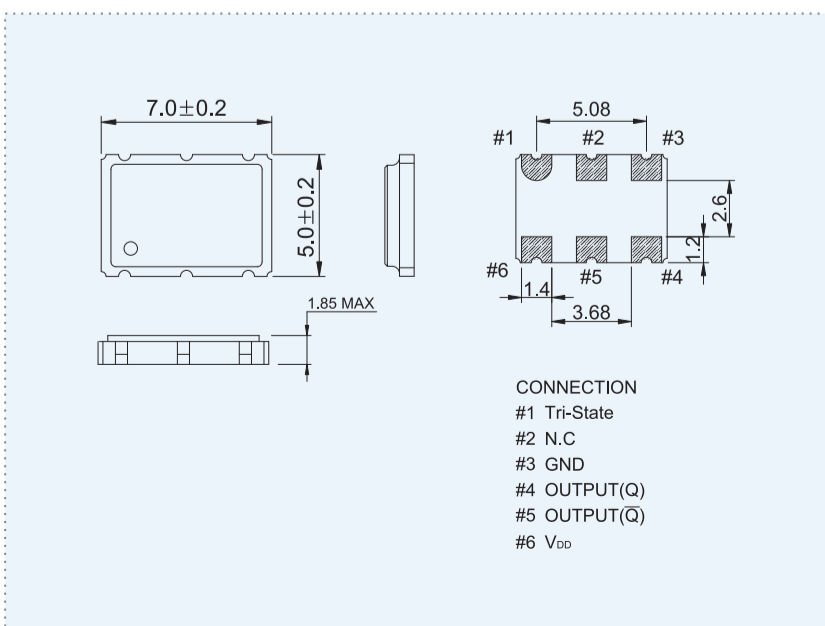


ELECTRICAL SPECIFICATIONS

Frequency Range	9.500 ~ 200.000MHz	
Operating Temperature Range	0 to +70°C or -40 to 85°C	
Storage Temperature Range	-55 ~ +125°C	
Frequency Tolerance / Stability	Inclusive of Operating Temperature Range, Supply Voltage, and Load	$\pm 100, \pm 50\text{ppm}$ or $\pm 25, \pm 20\text{ppm}$
Supply Voltage	2.5V _{DC} $\pm 5\%$	3.3V _{DC} $\pm 5\%$
Current Consumption	88mA(2.5, 3.3V) max.	
Output Voltage Logic Low	V _{DD} - 1.620 V max.	
Output Voltage Logic High	V _{DD} - 1.025 V min.	
Rise / Fall Time	1ns max. (20 ~ 80% Waveform)	
Duty Cycle	50 $\pm 5\%$	
Output load	V _{DD} - 2.0V _{DC} to 50 Ω	
Pin 1 Tri-state Input Voltage	No Connection V _{IH} : $\geq 0.7V_{DD}$ V _{IL} : $\leq 0.3V_{DD}$	Enable Output Enable Output Disable Output : High Impedance
Aging (at 25°C)	$\pm 3\text{ppm/year max.}$	
Start-up Time	10ms max.	
Phase Jitter(12kHz to 20MHz)	1ps max.	

MECHANICAL DIMENSIONS

(mm)



LAND PATTERN

(mm)

