

# 149-B Series

## SMD CERAMIC ENCLOSURE QUARTZ CRYSTAL OSCILLATORS 表貼石英晶體振盪器



### FEATURES

- Small size
- High reliability seam welded package
- Pick and place assembly
- Low supply voltage version available



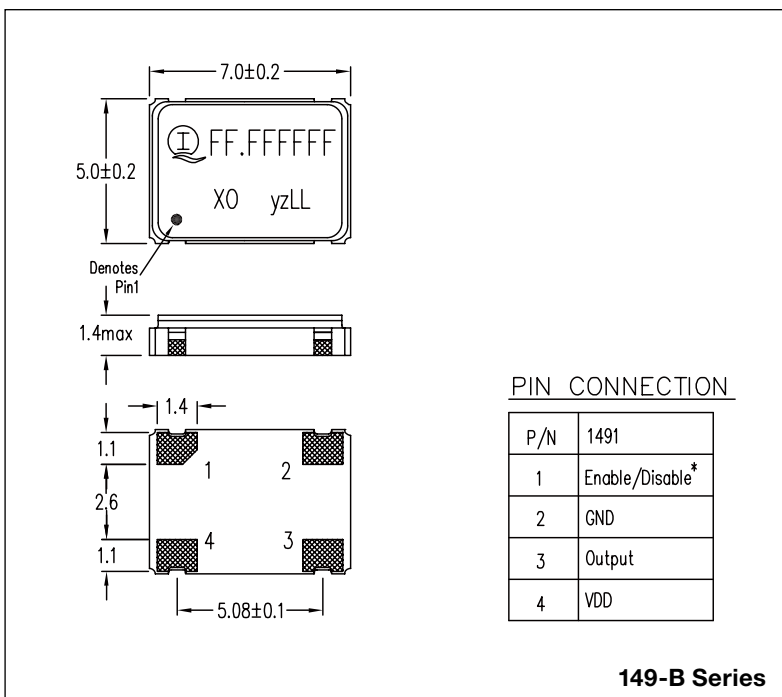
Standard crystal oscillators

Parameters		Specifications		
Output Waveform 輸出波型		CMOS		
Frequency Range 頻率範圍		32.768KHz	1MHz ~ 50MHz	50MHz ~ 160MHz
Supply Voltage Range (Vdd) 工作電壓範圍		1.6V ~ 5.5V	0.8V ~ 5.5V	1.62V ~ 3.63V
Overall Frequency Stability with refer to 25°C** 相對於 25°C 的總頻率偏差**		±10ppm, ±15ppm, ±20ppm, ±25ppm, ±30ppm, ±50ppm, ±100ppm		
Operating Temperature Range 工作溫度範圍		-20°C ~ +70°C, -40°C ~ +85°C		
Current Consumption (Idd) 消耗電流		0.1mA Max.	10mA Max.	20mA Max.
Rise & Fall Time 上 / 下沿時間		20ns Max.	8ns Max.	5ns Max.
Output Symmetry 輸出對稱性		40% ~ 60%, 45% ~ 55%		
Output Voltage 輸出電壓	V <sub>OH</sub>	90% VDD		
	V <sub>OL</sub>	10% VDD		
Output Load 輸出負載		15pF		
Start-up Time 起動時間		10ms Max.		
Storage Temperature Range 儲存溫度範圍		-55°C ~ +125°C		

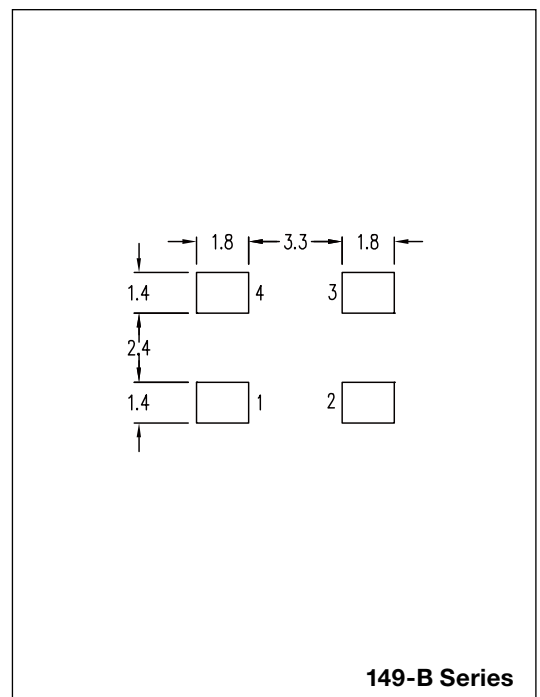
\*\* Inclusive of initial frequency tolerance at 25°C, operating temperature range, supply voltage change, load variation and 1st year aging.  
包括在常溫頻率偏差、工作溫度範圍的頻率偏差、首年老化率、工作電壓及負載變化造成的頻率偏差。

Please consult our sales representatives for other specifications  
如對其他規格查詢，請與我司銷售人員聯繫

### DIMENSION (mm)



### SOLDERING PATTERN (mm)



All specifications are subject to change without prior notice.  
本公司保留修改規格的權利。

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