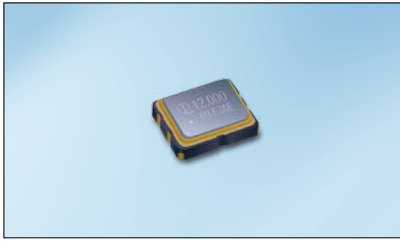


163 Series

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

Standard crystal oscillators



FEATURES

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

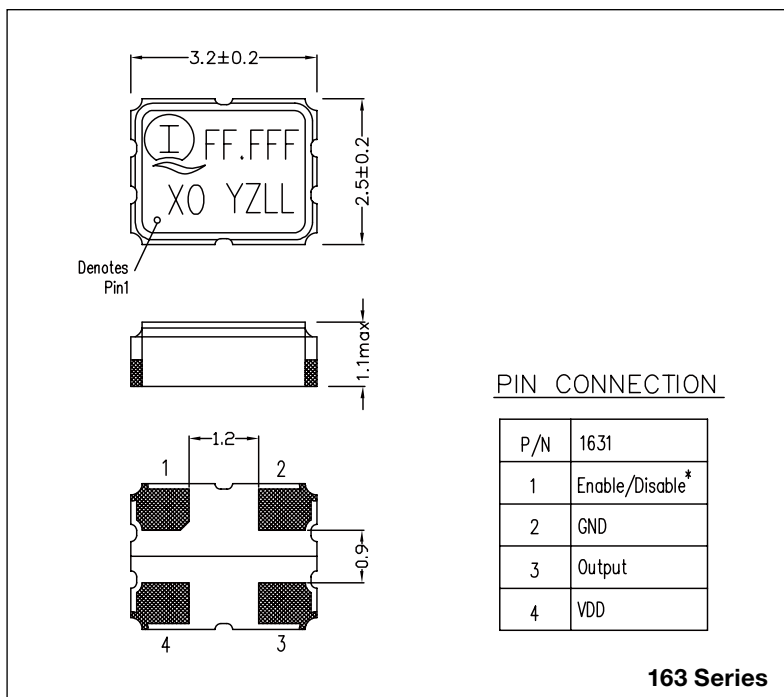


Parameters	Specifications		
Output Waveform 輸出波型	CMOS		
Frequency Range 頻率範圍	32.768KHz	1MHz ~ 50MHz	50MHz ~ 160MHz
Supply Voltage Range (Vdd) 工作電壓範圍	1.6V ~ 5.5V	0.8V ~ 5.5V	1.62V ~ 3.63V
Overall Frequency Stability with refer to 25°C** 相對於 25°C 的總頻率偏差**	±10ppm, ±15ppm, ±20ppm, ±25ppm, ±30ppm, ±50ppm, ±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 _{OH}	90% VDD	
	V _{OL}	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		

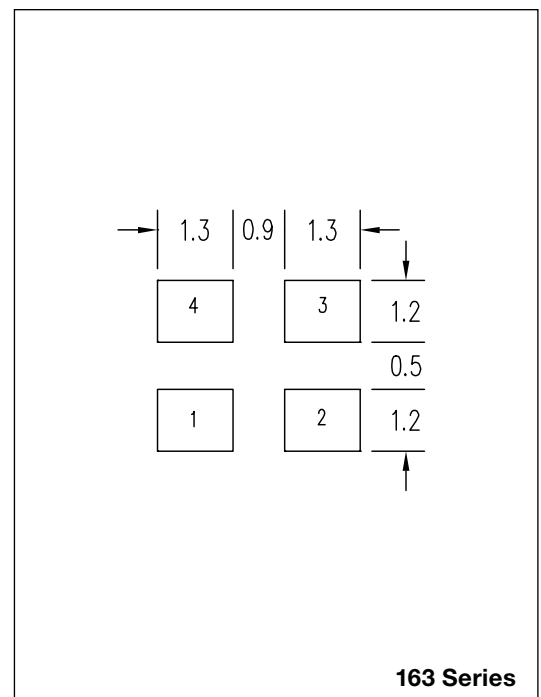
** Inclusive of initial frequency tolerance at 25°C, operating temperature range, supply voltage change, load variation and 1st year aging.
包括在常溫頻率偏差、工作溫度範圍的頻率偏差、首年老化率、工作電壓及負載變化造成的頻率偏差。

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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