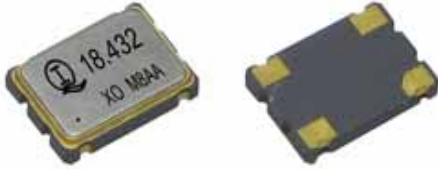


SMD CERAMIC ENCLOSURE CRYSTAL OSCILLATORS

149 Series



FEATURES

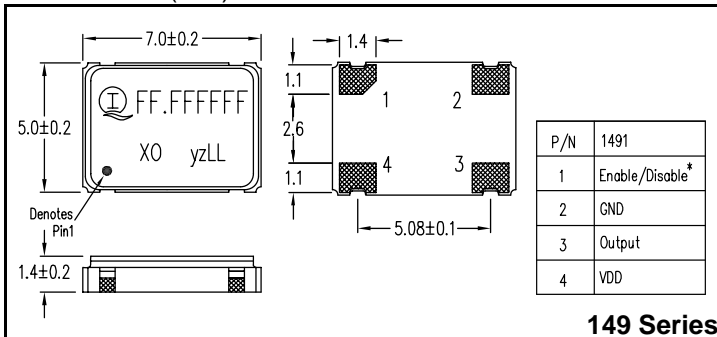
- Compact size
- Low profile
- Pick and place assembly
- Low supply voltage version available



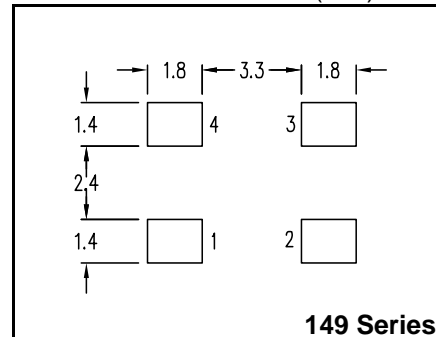
Item		Specifications
Nominal Frequency Range		1.0MHz ~ 160.0MHz
Frequency Stability ¹		±10ppm, ±25ppm, ±50ppm
Operating Temperature Range		-10°C to 70°C, -40°C to 85°C
Storage Temperature Range		-55°C to 125°C
Supply Voltage (V _{DD})		2.8V±5%, 3.3V±10%, 5.0V±10%
Current Consumption	1.0MHz ~ 50.0MHz	40mA Max.
	50.0MHz ~ 100.0MHz	70mA Max.
	100.0MHz ~ 160.0MHz	90mA Max.
Rise & Fall Time	1.0MHz ~ 50.0MHz	8ns Max.
	50.0MHz ~ 100.0MHz	6ns Max.
	100.0MHz ~ 160.0MHz	3ns Max.
Output Waveform		CMOS, HCMOS
Duty Cycle		40% ~ 60%
Output Voltage	V _{OH}	90% V _{DD}
	V _{OL}	10% V _{DD}
Output Load		15pF
Start-up Time		10ms Max.

¹ Inclusive of initial frequency tolerance at 25°C, operating temperature range, supply voltage change, load variation and 1st year aging. Please consult our sales representatives for other specifications.

DIMENSION (mm)



SOLDERING PATTERN (mm)



All specifications are subject to change without notice.



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