

HXO-33C/36C/37C/39C Series

1 to 125MHz



FEATURES

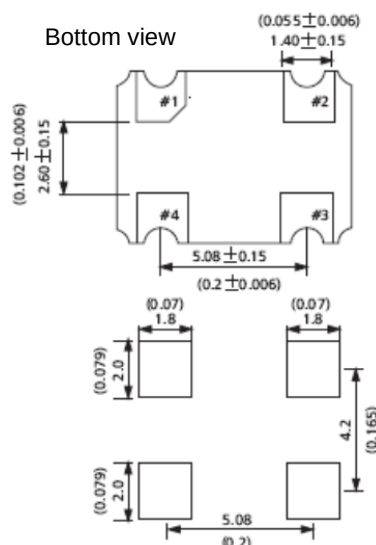
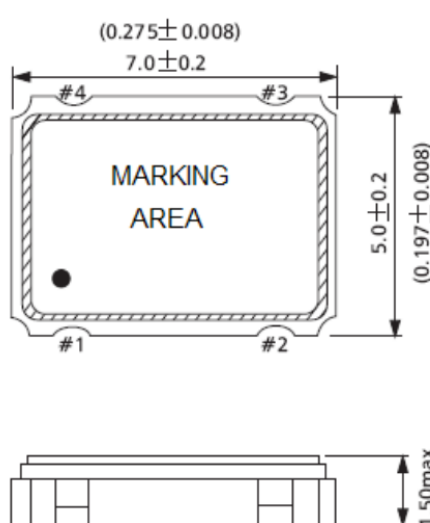
- High reliability for low cost
- Tri-state Enable/Disable
- Industry Standard
- Wide Frequency Range
- Low Cost

Electrical Specifications

Parameter	Symbol	Condition	HXO-33C	HXO-36C	HXO-37C	HXO-39C
Frequency Range	F ₀	---	1.0 to 125.0MHz			
Frequency Stability *		All Condition *	±25PPM, ±50PPM, ±100PPM			
Power Supply Voltage (±10%)	V _{DD}	---	5.0V	3.3V	1.8V	2.5V
Operating Temperature Range	T _{OPR}	---	-20°C to 70°C (-40°C to 85°C option)			
Storage Temperature Range	T _{STG}	---	-55°C to 125°C			
Aging (first year)		25°C ± 3°C	± 5PPM			
Supply Current	I _{DD}	0.5 to 23.999MHz	20mA Max	15mA Max	10mA Max	12mA Max
		24.000 to 49.999MHz	30mA Max	20mA Max	12mA Max	15mA Max
		50.000 to 69.999MHz	40mA Max	30mA Max	15mA Max	20mA Max
		70.000 to 125.000MHz	60mA Max	45mA Max	25mA Max	30mA Max
Output Symmetry	Sym	½ V _{DD}	40/60% (45/55% option)			
Rise Time	T _r	10%V _{DD} to 90%V _{DD}	5ns Max	8ns Max	6ns Max	7ns Max
Fall Time	T _f	90%V _{DD} to 10%V _{DD}	5ns Max	8ns Max	6ns Max	7ns Max
Output Voltage	V _{OH}	---	90% V _{DD} Min			
	V _{OL}		10% V _{DD} Max			
Output Load	TTL Load	---	1 to 10 TTL	---	---	---
	HCMOS Load	---	30pF Max (15pF Typ.)			
Startup Time	T _S	---	10ms Max			
Pin 1, Tri-state function	---	---	Pin 1= High or Open, output active at Pin 3			
			Pin 1= Low, high impedance at Pin 3			

* Include 25°C tolerance, operating temperature range, input voltage change, aging, load change, shock and vibration

Mechanical Dimensions – mm (inch)



Enable/Disable Function	
Input (Pin1)	Output (Pin3)
Open	Enable
High	Enable
Low	Disable

Pin	Connection
1	Tri-state/NC
2	GND
3	Output
4	V _{DD}

**Note: 0.01uF bypass capacitor should be placed between V_{DD} (Pin4) and GND(Pin2) to minimize power supply line noise

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