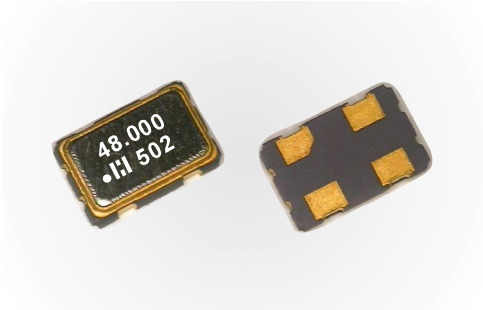
SMD CRYSTAL OSCILLATOR

Hosonic

• D5SX Series 5.0*3.2 OSC



FEATURES

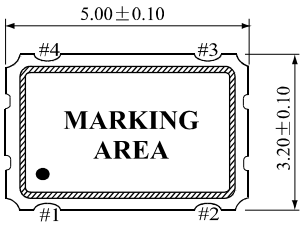
- 5X3.2X1.3 Miniature Package
- Tri-State Enable/Disable
- TTL/HCMOS compatible
- Home security devices, networking, and base station applications
- 5.0V, 3.3V, 2.8V(2.5V), 1.8V option

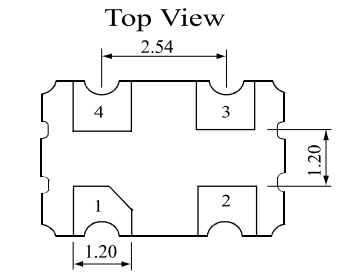
Electrical Specifications

Parameter		Condition	D5SX			
Frequency Range	F0		1~100MHz	1~156.25MHz		
Frequency Stability*		All Condition	±25ppm, ±50ppm, ±100ppm			
Operating Temperature Range	T_{OPR}		-20℃~+70℃(-40℃~+85℃ option)			
Storage Temperature Range	T_{STG}		-55℃~+125℃			
Power supply Voltage	V_{DD}		5.0V+/-10%	3.3V+/-10%	2.8V+/-10%	1.8V+/-10%
Supply Current	I_{DD}	1MHz to 9.999MHz	15mA Max	8mA Max	7mA Max	6mA Max
		10MHz to 34.999MHz	20mA Max	10mA Max	8mA Max	7mA Max
		35MHz to 49.999MHz	35mA Max	25mA Max	20mA Max	15mA Max
		50MHz to 156.25MHz	40mA Max	35mA Max	30mA Max	25mA Max
Output Symmetry	Sym	At 1/2V_{DD}	40/60%(45/55% Option)			
Rise time	T_r	10%V_{DD}~90%V_{DD}	5 nS Max	5 nS Max	6 nS Max	7 nS Max
Fall Time	T_f	90%V_{DD}~10%V_{DD}	5 nS Max	5 nS Max	6 nS Max	7 nS Max
Output Voltage	V_{OH}		90% V_{DD} Min			
	V_{OL}		10% V_{DD} Max			
Output Load	HCMOS Load		15pF Typ.			
Start Time	Ts		10mS Max			
Stand-by Function			Yes			
Aging(First Year)		25℃±3℃	±2ppm Max			
Pin 1,tri-state function			Pin 1=H or open....Output active at pin 3			
			Pin 1=L.....high impedance at pin 3			
Packing Unit			1000pcs/reel			

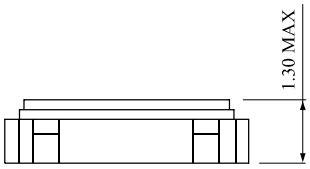
**Include: 25℃ tolerance, operating temperature range, input voltage change, aging, load change, shock and vibration*

Mechanical Dimensions(mm)

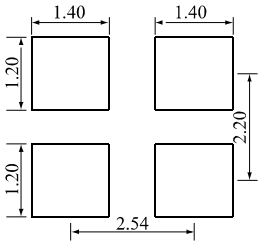




Pin	Connection
#1	Tri-State
#2	GND
#3	Output
#4	V_{DD}



Recommended Solder Pattern



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

SPXO