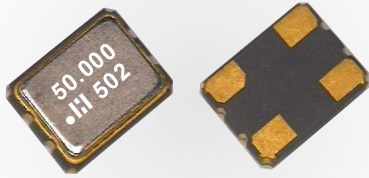




# SMD CRYSTAL OSCILLATOR



## • D3SX Series 3.2\*2.5 OSC



### FEATURES

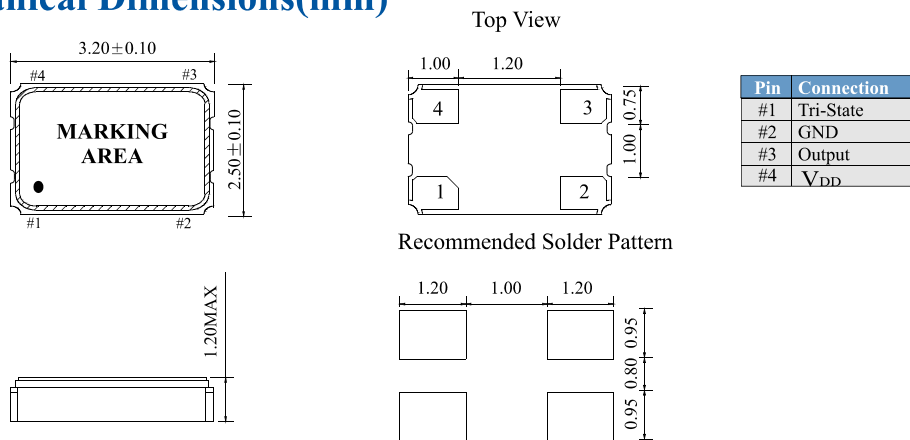
- 3.2X2.5X1.2 Miniature Package
- Tri-State Enable/Disable
- TTL/HCMOS compatible
- Home security devices, power saving application, and low frequency specification circuit design looking for a smaller package
- 5.0V, 3.3V, 2.8V(2.5V), 1.8V option

### Electrical Specifications

Parameter		Condition	D3SX			
Frequency Range	F0		1~54MHz	1~125MHz		
Frequency Stability*		All Condition	± 25ppm, ± 50ppm, ± 100ppm			
Operating Temperature Range	T <sub>OPR</sub>		-20°C~+70°C (-40°C~+85°C option)			
Storage Temperature Range	T <sub>STG</sub>		-55°C~+125°C			
Power supply Voltage	V <sub>DD</sub>		5.0V+/-10%	3.3V+/-10%	2.8V+/-10%	1.8V+/-10%
Supply Current	I <sub>DD</sub>	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 54.000MHz	40mA Max	35mA Max	30mA Max	25mA Max
Output Symmetry	Sym	At 1/2V <sub>DD</sub>	40/60%(45/55% Option)			
Rise time	T <sub>r</sub>	10%V <sub>DD</sub> ~90%V <sub>DD</sub>	5 nS Max	5 nS Max	6 nS Max	7 nS Max
Fall Time	T <sub>f</sub>	90%V <sub>DD</sub> ~10%V <sub>DD</sub>	5 nS Max	5 nS Max	6 nS Max	7 nS Max
Output Voltage	V <sub>OH</sub> V <sub>OL</sub>		90% V <sub>DD</sub> Min 10% V <sub>DD</sub> Max			
Output Load	HCMOS Load		15pF Typ.			
Start Time	T <sub>s</sub>		10mS Max			
Stand-by Function			Yes			
Aging(First Year)		25°C ± 3°C	± 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			3000pcs/reel			

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

### Mechanical Dimensions(mm)



\*\*Note: A 0.01uF bypass capacitor should be placed between V<sub>DD</sub>(Pin4) and GND(Pin2) to Minimize power supply line noise

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Specifications are subject to change without notice

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