Hosonic

SMD Crystal Oscillators

RoHS Compliant HF

Pb

D5SX Series 5.0×3.2×1.3mm



Features

- Small SMD package
- Low power standby mode

Applications

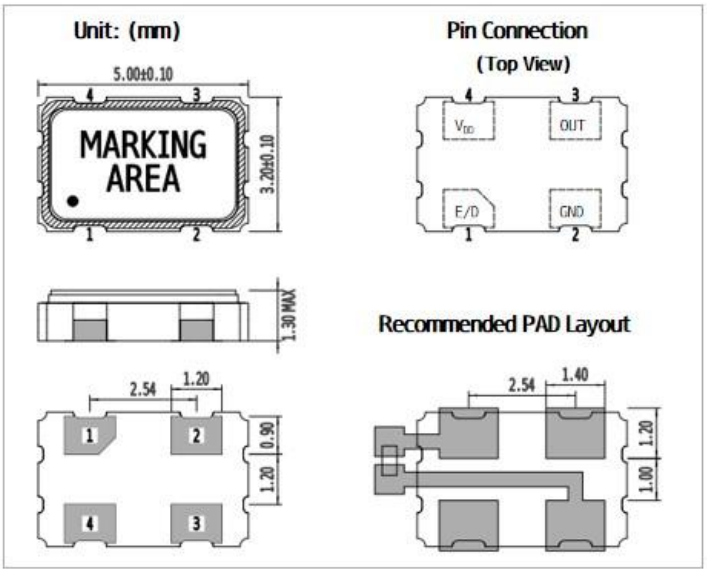
- High quality audio
- Communication equipment
- Server
- Industry

Electrical Specifications

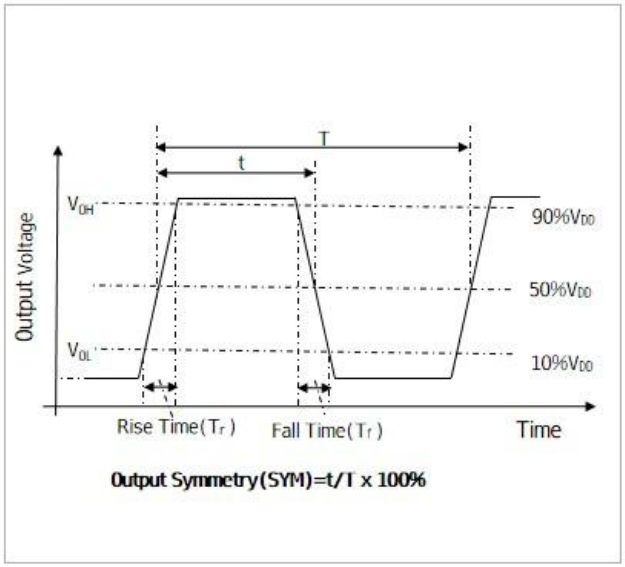
Item	Symbol	Condition	D5SX		
Frequency Range	f_{nom}	-	1~156.25MHz		
Output Type	-	-	CMOS		
Output Load	-	-	15pF. or specify		
Frequency Stability*	f_{stb}	All Condition*	±25ppm. or specify		
Operating Temperature Range	T_{opr}	-	-20~+70℃. or specify		
Storage Temperature Range	T_{stg}	-	-40~+85℃		
Power Supply Voltage	V_{DD}	-	3.3V±10%	2.8V±10%	1.8V±10%
Supply Current (At 15pF Load)	I_{DD}	1.0~19.9MHz	5mA max.	4mA max.	3mA max.
		20.0~49.9MHz	8mA max.	7mA max.	5mA max.
		50.0~99.9MHz	20mA max.	18mA max.	16mA max.
		100.0~156.25MHz	35mA max.	30mA max.	25mA max.
Rise Time / Fall Time	T_r/T_f	10%V_{DD}~90%V_{DD}	4ns max.	5ns max.	6ns max.
Output Voltage	V_{OH}	-	90%V_{DD} min.		
	V_{OL}	-	10%V_{DD} max.		
Output Symmetry	SYM	At 1/2 V_{DD}	45%~55%		
Stand-by Current	Ist	-	10μA max.		
Start-up time	-	-	5ms max.		
Aging (At 25℃)	-	-	±3 ppm/year max.		
Pin 1. Enable/Disable function	E/D	-	Pin 1="High" or "open".....output active at pin 3 Pin 1="Low".....high impedance at pin 3		

* Include : 25℃ tolerance. operating temperature range. input voltage change. aging. load change.

Mechanical Dimensions



Output Waveform



** 0.01uF bypass capacitor should be placed between V_{DD} (pin 4) and GND (pin 2) to minimize power supply line noise.

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