

SX5C

HCMOS SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

FEATURES

- Standard miniature package
- High shock and vibrational resistivity
- Many options available
- Wide Operating temperature range from -55°C to +125°C
- Applications: Wireless communications, Portable electronics, ...

5.0 x 3.2 x 1.3 mm



| Item | Specification |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency Range | 25 kHz ~ 200 MHz |
| Output Logic | CMOS |
| Overall Frequency Stability * | ± 10 ppm ~ ± 100 ppm (see options) |
| Operating Temperature Range | 0~+70°C commercial application (see options) -40 ~ +85°C industrial application (see options) -40 ~ +125°C automotive application (see options) -55 ~ +125°C (see options) |
| Supply Voltage Vdd | +1.0V ±5% +1.2V ±5% +1.5V ±5% +1.8V ±5% +2.5V ±5% +1.8V ~ 3.3V ±10% +3.3V ±10% +5.0V ±10% |
| Supply Current Idd | 1 mA ~ 2 mA 4 mA ~ 10 mA 4 mA ~ 12 mA 5 mA ~ 20 mA 5 mA ~ 25 mA 5 mA ~ 40 mA |
| Output Level | VOH ≥ 0.9 Vdd VOL ≤ 0.1 Vdd |
| Output Load | 15 pF |
| Symmetry | 45 / 55 % |
| Rise Time / Fall Time Fr/Ff | 3 ~ 10 ns |
| Tri-state function | pin #1 = high or open pin #3 = oscillation pin #1 = low pin #3 = disable |
| Standby current | 10 µA max |
| Start-up Time | 5 ms max. |
| RMS Jitter (12 kHz to 20 MHz band) | 1 ps max. |
| Packing Unit | 1000pcs / reel |
| | 260°C , 10 sec x2 max |

Customer specifications on request

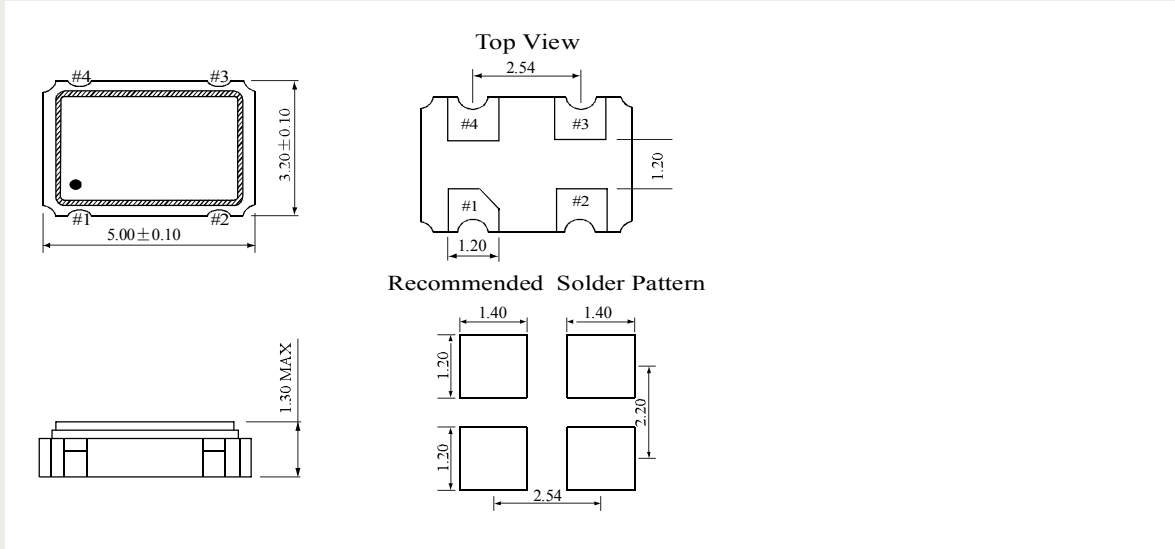
(*) Includes initial tolerance @+25°C, stability over operating temperature, stability vs. load change, stability vs. supply change and one year aging

OPTIONS & ORDERING INFORMATION

| SX5C | | | | | MHz |
|--------------------|-------------------|---------------------|--------------------|---------------|-------------------------------------|
| Supply Voltage * | Operating Temp. * | Overall Stability * | Tri-state Function | Output Load * | Frequency in MHz |
| 10 = +1.0V | D = -10° / +60°C | 10 = ±10 ppm | E = Tri-state | Blanc = 15 pF | Please specify the frequency in MHz |
| 12 = +1.2V | E = 0° / +70°C | 15 = ±15 ppm | | | |
| 15 = +1.5V | F = -20° / +70°C | 20 = ±20 ppm | | | |
| 18 = +1.8V | G = -30° / +75°C | 25 = ±25 ppm | | | |
| 25 = +2.5V | H = -30° / +85°C | 30 = ±30 ppm | | | |
| 1V3 = +1.8V ~+3.3V | K = -40° / +85°C | 50 = ±50 ppm | | | |
| 33 = +3.3V | L = -40°/+105°C | 100 = ±100 ppm | | | |
| 50 = +5.0V | M = -40°/+125°C | | | | |
| | N = -55°/+125°C | | | | |

(*) Note : Not all combinations are possible, please consult us.

OUTLINE DIMENSIONS



Pin Connections

#1 : E/D

#2 : GND

#3: Output

#4 : Vdd