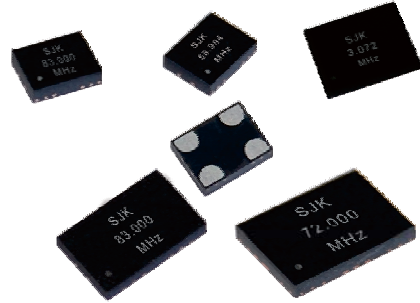


Features

- Frequency between 1MHz and 110MHz accurate to 6 decimal places.
- Operating temperature from -40°C to 125°C.
- Supply voltage of 1.8V or 2.5V to 3.3V.
- Excellent total frequency stability as low as ±20ppm.
- Low power consumption of 3.5mA typical at 1.8V.
- LVC MOS /LV TTL compatible output.
- Package size: 2.0×1.6, 2.5×2.0, 3.2×2.5, 5.0×3.2, 7.0×5.0 mm×mm.
- Faster delivery.
- RoHS Compliant /Pb-Free.

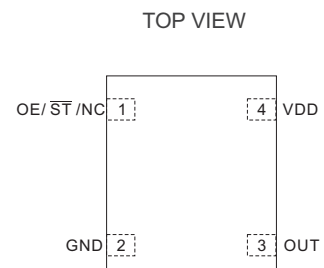


Electrical Specifications

Item /Type	S6XX (High Temperature MEMS Oscillators)
Frequency Output	1~110 MHz
Frequency Stability	20ppm, ±25ppm, ±30ppm, ±50ppm
Operating Temperature Range	-40~+105°C / -40~+125°C
Supply Voltage	1.8V~3.3V
Current Consumption	3.5mA Typ.
OE Disable Current	4.5mA Max.
Standby Current	0.6mA Typ.
Duty Cycle	45~55%
Rise /Fall Time	1.0ns Typ.
Output High Voltage	90% VDD Min.
Output Low Voltage	10% VDD Max.
Input High Voltage	70% VDD Min.
Input Low Voltage	30% VDD Max.
Startup Time	5ms Max.
Enable /Disable Time	130ns Max.
Resume Time	5ms Max.
RMS Period Jitter	1.6ps Typ.
Peak-to-Peak Period Jitter	12ps Typ.
RMS Phase Noise (random)	0.5ps Typ.
Storage Temperature Range	-65~+150°C
Output Type	LVC MOS /LV TTL

Pin Description

Pin	Symbol	Function
1	OE/ \overline{ST} / NC	Output Enable H: specified frequency output. L: output is high impedance. Only output device is disabled.
		Standby H: specified frequency output. L: output is low (weak pull down). Device goes to sleep mode, Supply current reduces to I _{std} .
		No Connect Any voltage between 0 and V _{dd} or open: Specified frequency output. Pin 1 has no function
2	GND	Power Electrical ground
3	Output	Output Oscillator Output
4	VDD	Power Power of supply voltage



Dimensions

Units:mm

Package Size	Recommended Land Pattern
<p>2.0×1.6×0.75 mm</p>	
<p>2.5×2.0×0.75 mm</p>	
<p>3.2×2.5×0.75 mm</p>	
<p>5.0×3.2×0.75 mm</p>	
<p>7.0×5.0×0.90 mm</p>	