

LSM Series Oscillators

查询"32.7680LSMC050UC"供应单ow Power - Low Frequency SMD Oscillator

- Low current consumption, low frequency from 30kHz
- Low profile, miniature SMD package
- Full military testing available
- Testing to MIL-PRF-55310 available

DESCRIPTION

LSM series oscillators are precision surface mount oscillators with a frequency range from 30kHz to 200kHz. The part comprises of a hermetically sealed crystal with a hybrid circuit sealed in a ceramic package with a Kovar lid. Full MIL testing is available.

SPECIFICATION

Packaging:

Frequency Range****: 30kHz to 200kHz (32.768kHz) Supply Voltage*: 3.3 or 5.0 Volts ±10% Calibration Tolerance** Code A: ±0.001% (±10ppm) Code B: ±0.0025% Code C: ±0.01% Frequency Stability*** 0° to +50°C: ±0.0025% typical (±25ppm) ±0.004% maximum (±40ppm) -20° to +40°C: ±0.007% typical (±70ppm) ±0.01% maximum (±100ppm Voltage Coefficient ±1ppm/V typical ±3ppm/V maximum ±1ppm/year typical Ageing: ±3ppm/year maximum Shock: 1000g, 1ms, ½ sine, ±3ppm max. Vibration: 10g rms, 10-2000Hz, ±3ppm max. Frequency Change vs. Output Load Change: ±1ppm maximum **Operating Temperature:** -10° to +70°C Commercial -40° to +85°C Industrial -55° to +125°C Military Output Voltage (5.0V supply) 4.8V minimum, 4.95V typical HIGH: LOW: 0.2V maximum, 0.05V typical Rise/Fall Times: 12ns typical Symmetry: 40/60% maximum, 45/55% typical Supply Current 5.0V supply: 15 μA max., 8.3 μA typical 3.3V supply: 10 μA max., 5.5 μA typical

ENABLE/DISABLE, POWER DOWN, NOT CONNECTED

Option	Specifying Code	Pad 1*	Pad 3
Power Down	Р	LOW HIGH	High Z Frequency output
Enable/Disable	Т	LOW HIGH	High Z Frequency output
Not Connected	Blank	NC	Frequency output

* Normally HIGH (internal pull-up resistor)

ENABLE/DISABLE vs. POWER DOWN

P - Power Down: When Pad 1 is LOW the oscillator stops running T - Enable/Disable: When Pad 1 is LOW the internal oscillator

continues to run but the output (Pad 3) is in a

Tray pack (standard)

16mm tape, 17.8cm or 33cm reels

high impedance (Z) state.

Power Down: Disabled current consumption low,

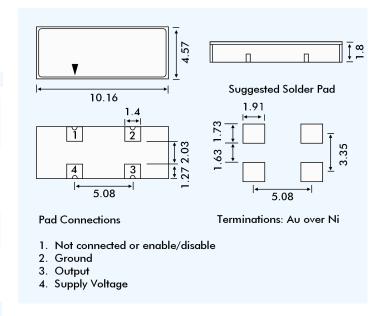
recovery delayed.

Enable/Disable: Disabled current consumption lower than normal,

Recovery immediate.



OUTLINE & DIMENSIONS



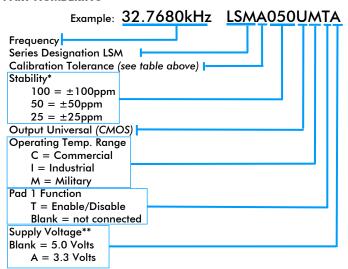
Notes:

- * Contact factory for lower supply voltages
- * Tighter tolerances avialable
- *** Does not include calibration tolerance. Positive variations

are small compared to negative variations.

**** Contact factory for frequencies other than 32.7680kHz

PART NUMBERING



- * For other stability requirements enter figure required.
- ** For other supply voltage enter required voltage.