

SIMPLE PACKAGED CRYSTAL OSCILLATOR

Part Number: 830208334601 | IQXO-624

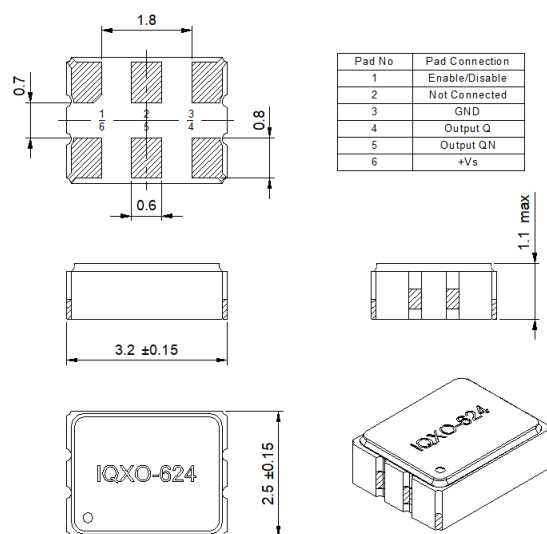
AKA Number: LFSPXO083346



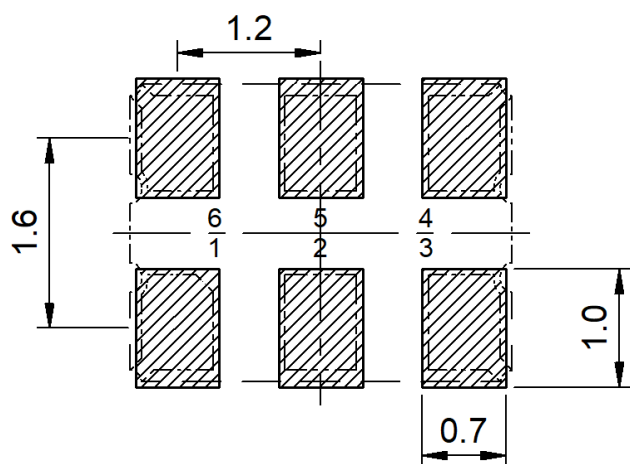
General Information

LVPECL output crystal oscillator using a high frequency fundamental crystal to give very low jitter. Hermetically sealed ceramic package with a seam sealed metal lid.

Dimensions [mm]



Recommended Land Pattern [mm]



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Frequency Parameters

Frequency	156.250 MHz
Frequency Tolerance	INCLUSIVE
Frequency Stability	± 50 ppm
Operating Temperature	-40 °C to 105 °C
Ageing	± 3 ppm max. per year @ 25 °C

Output Details

Output Compatibility	LV PECL
Drive Capability	50 Ω terminated to Vs-2.0V

Output Voltage Levels:

Output Low (VoL): 1.680 V max.

Output High (VoH): 2.275 V min.

Output Control

- Standby Operation:
 - Logic '1' (70% Vs min) to pad 1 enables oscillator output.
 - Logic '0' (30% Vs max) to pad 1 disables oscillator output.
 - No connection to pad 1 enables oscillator output due to internal pull-up resistor.
- Standby Current: 10 µA max
- Start-up Time: 10ms max

Material Parameters

Termination Finish	Ni Au
Moisture Sensitivity Level (MSL)	Not Applicable

Manufacturing Details

Reflow: 260 °C max for 10 seconds.

Electrical Parameters

Supply Voltage	3.3 V ± 5 %
Current Consumption	50 mA max.
Rise Time t_r	0.5 ns max.
Fall Time t_f	0.5 ns max.
Duty Cycle	45/55 %

Note: Rise & fall time measured between 20 % and 80 % of output waveform.

Noise Parameters

- Phase Jitter (12 kHz to 20 MHz): 300 fs max.
- Phase Jitter (12 kHz to 20 MHz):
 - @100 MHz: 155 fs rms typ
 - @125 MHz: 132 fs rms typ
 - @156.25 MHz: 106 fs rms typ

Environmental Parameters

Storage Temperature Range: -55 °C to 125 °C

- Shock: 1500 g, 0.5 ms, 3 times for each surface, total 18 times.
- Vibration: Frequency range: 20~2000 Hz, peak to peak amplitude: 1.52 mm, peak acceleration: 20 g (196 m/s²), 3 directions (X, Y, Z), each cycle: 20 minutes, 4 cycles for each direction.

Technical Standards

RoHS Status	2015/863/EU - Compliant
REACH Status	(EC)1907/2006 - Compliant

Packaging Details

Packaging SPQ Tape & Reel 3000 pcs

Tape & reel in accordance with EIA-481

Quantities below the standard reel size to be supplied on cut tape.

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Company Address

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