

SIMPLE PACKAGED CRYSTAL OSCILLATOR

Part Number: 830206924301 | IQXO-794

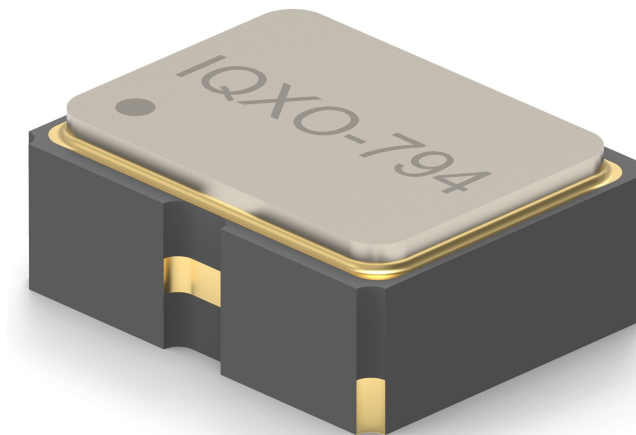
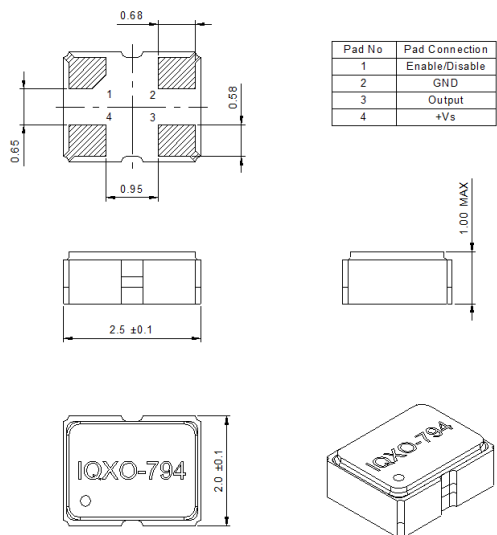
AKA Number: LFSPX0069243



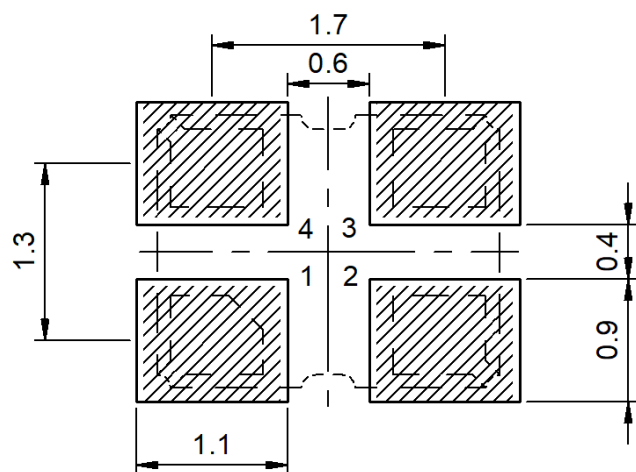
General Information

Standard 2.5 x 2.0 oscillator in a ceramic package with a hermetically sealed metal lid.

Dimensions [mm]



Recommended Land Pattern [mm]



SIMPLE PACKAGED CRYSTAL OSCILLATOR



Part Number: 830206924301 | IQXO-794

AKA Number: LFSPX0069243

Frequency Parameters

Frequency	50.0 MHz
Frequency Tolerance	INCLUSIVE
Frequency Stability	± 25 ppm
Operating Temperature	-20 °C to 70 °C
Ageing	± 5 ppm per year

Electrical Parameters

Supply Voltage	1.8 V ± 10 %
Current Consumption	12 mA max.
Rise Time t_r	7 ns max.
Fall Time t_f	7 ns max.
Duty Cycle	40/60 %

Output Details

Output Compatibility	CMOS
- Start Up Time: 0.9ms typ to 90% of final amplitude (under ideal conditions @25 °C) 10ms max - Output Voltage Levels: Output Low (VoL): 10% Vs max Output High (VoH): 90% Vs min	

Noise Parameters

- Period Jitter (pk-pk): ±80ps typ
- Period Jitter (1σ): ±10ps typ
- RMS Phase Jitter (12kHz to 20MHz): 1ps max

Environmental Parameters

Storage Temperature Range:	-55 °C to 125 °C
- Shock: Half Sine shock pulse with peak acceleration 500g; Pulse duration: 0.3ms - Vibration: MIL-STD-202 Method 204. 5g for 20 minutes, 12 cycles in each of the 3 orientations, 10 ~ 2000 Hz. As per Table 11 of AEC-Q200.	

Output Control

- Enable/Disable:
Logic '1' (≥70% Vs) to pad 1 enables oscillator output.
Logic '0' (≤30% Vs) to pad 1 disables oscillator output. When disabled the oscillator output goes to the high impedance state.
No connection to pad 1 enables oscillator output.
- Standby Current:
0.5µA typ @25 °C
10µA max

Technical Standards

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

Material Parameters

Moisture Sensitivity Level (MSL)	Not Applicable
----------------------------------	----------------

Packaging Details

Packaging SPQ	Tape & Reel 3000 pcs
Tape & reel in accordance with EIA-481D	

Manufacturing Details

260 °C max for 10 seconds max

Company Address

IQD Frequency Products Ltd.
Station Road
Crewkerne
Somerset
TA18 8AR, United Kingdom