

SIMPLE PACKAGED CRYSTAL OSCILLATOR

Part Number: 8302100294 | IQXO-791

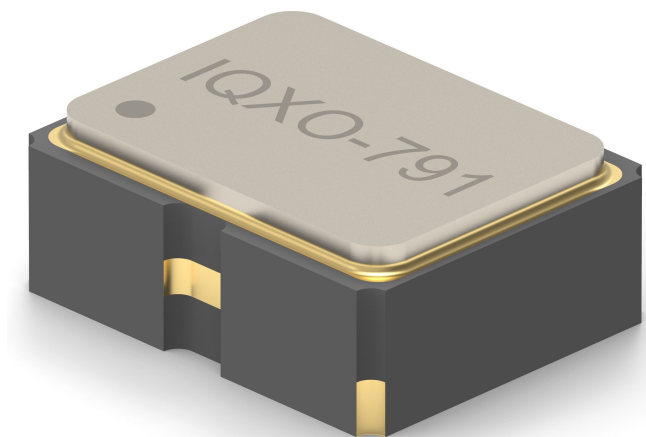
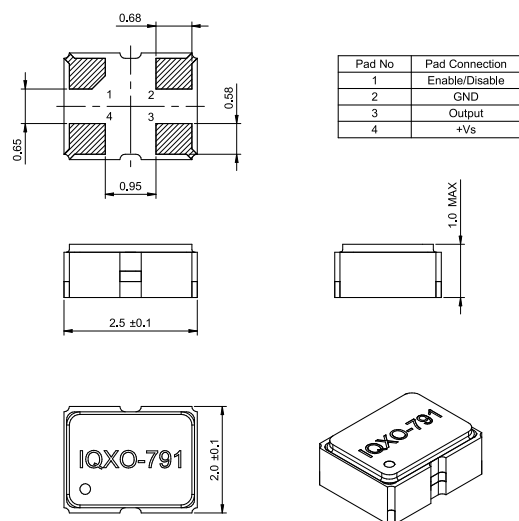
AKA Number: LFSPXO100294



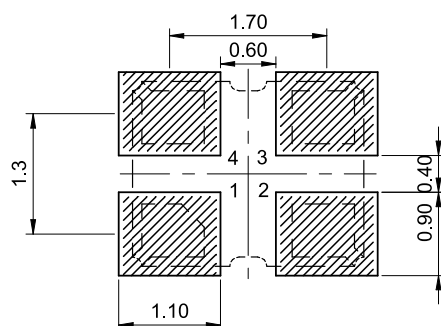
General Information

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

Dimensions [mm]



Recommended Land Pattern [mm]



Frequency Parameters

Frequency	4.0 MHz
Frequency Tolerance	INCLUSIVE
Frequency Stability	± 50 ppm
Operating Temperature	-40 °C to 125 °C
Ageing	± 5 ppm max. first year @ 25 °C

Electrical Parameters

Supply Voltage	3.3 V ± 10 %
Current Consumption	25 mA max.
Rise Time t_r	7 ns max.
Fall Time t_f	7 ns max.
Duty Cycle	40/60 %

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Output Details

Output Compatibility	CMOS
- Drive Capability: 15 pF - Output Voltage Levels: - Output Low (VoL): 10 % Vs max - Output High (VoH): 90 % Vs min. - Start Up Time: (0.7 ms typ to 90 % of final amplitude (under ideal conditions @ 25 °C)): 10 ms max.	

Output Control

- Standby Operation:
 - Logic '1' ($\geq 70\%$ Vs) to pad 1 enables oscillator output.
 - Logic '0' ($\leq 30\%$ 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:
 - 1.0 μ A typ. @ 25 °C
 - 10 μ A max.

Material Parameters

Moisture Sensitivity Level (MSL)	1
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Manufacturing Details

Reflow: 260 °C max. over 10 seconds max.

Company Address

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

Noise Parameters

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

Environmental Parameters

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

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-481D	
Quantities below the standard reel size to be supplied on cut tape.	