

SIMPLE PACKAGED CRYSTAL OSCILLATOR



Part Number: **8302100304** | CFPS-39

AKA Number: LFSPXO100304

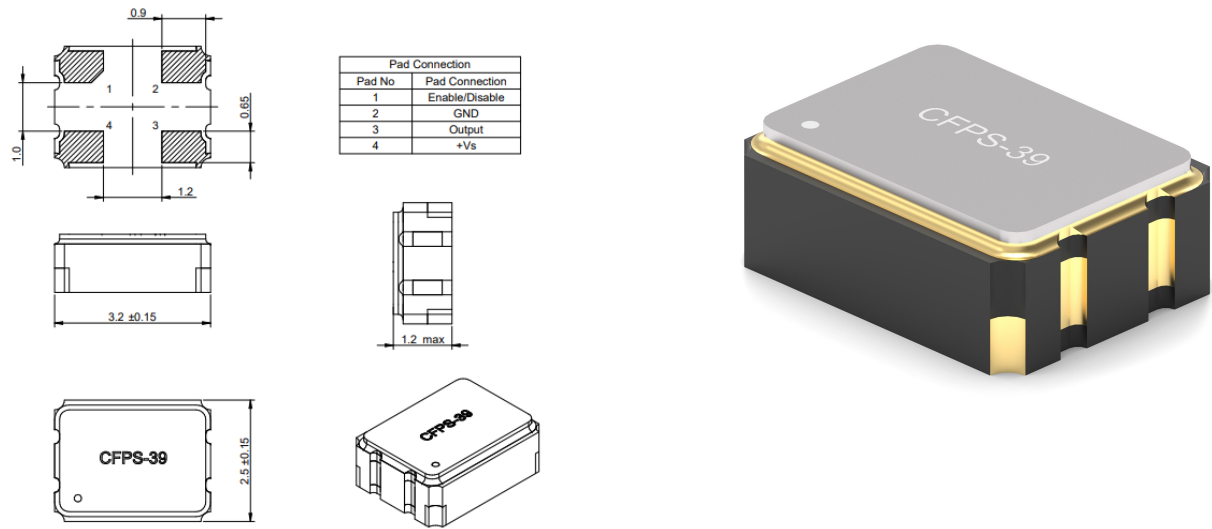


General Information

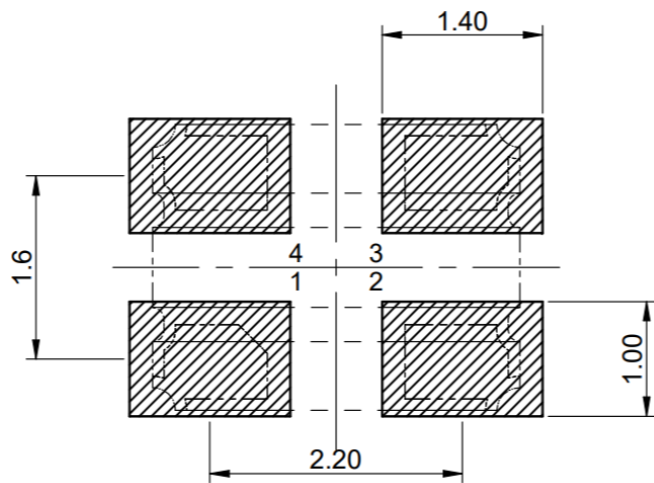
Surface mount 3.2 x 2.5 mm crystal oscillator in a hermetically sealed ceramic package with a seam sealed metal lid.

Note: please be aware that devices supplied against this model may show slight cosmetic differences depending upon the frequency and specification, however all electrical details remain as per the model specification.

Dimensions [mm]



Recommended Land Pattern [mm]



SIMPLE PACKAGED CRYSTAL OSCILLATOR



Part Number: **8302100304** | CFPS-39

AKA Number: LFSPXO100304

Frequency Parameters

Frequency	50.0 MHz
Frequency Tolerance	INCLUSIVE
Frequency Stability	± 50 ppm
Operating Temperature	-40 °C to 125 °C
Ageing	± 5 ppm max. per year @ 25 °C

Output Details

Output Compatibility	CMOS
Drive Capability	15 pF max.

- Output Low VoL: 10 % Vs max.
Output High VoH: 90 % Vs min.
- Start-Up Time: 10 ms max.

Output Control

Standby Operation:
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: 10 µA max.

Material Parameters

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

Manufacturing Details

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

Electrical Parameters

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

Noise Parameters

Phase Jitter (12.0 kHz to 20.0 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, 10.0 ~ 2000.0 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.	

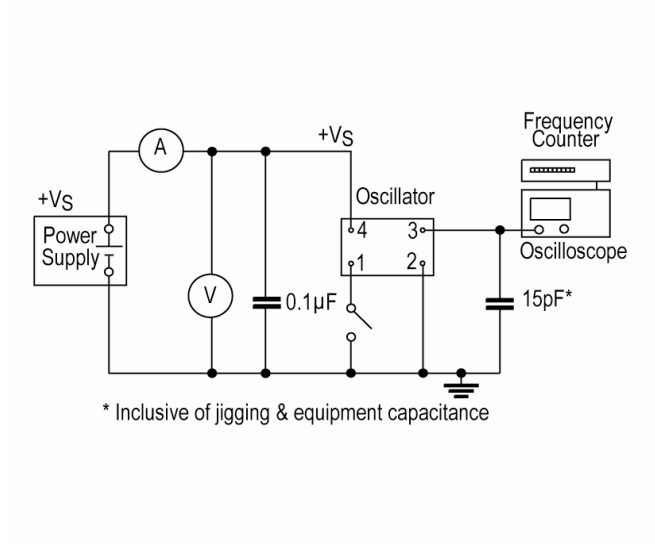
SIMPLE PACKAGED CRYSTAL OSCILLATOR



Part Number: 8302100304 | CFPS-39

AKA Number: LFSPXO100304

Test Circuit



Company Address

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