SIMPLE PACKAGED CRYSTAL OSCILLATOR

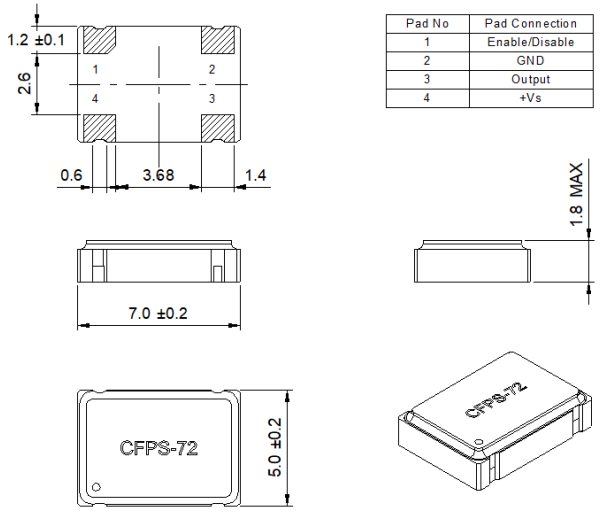
Part Number: 831018034 | CFPS-72

AKA Number: LFSPXO018034

General Information

Standard 7.0 x 5.0 mm crystal oscillator in a ceramic package with a seam sealed metal lid, hermetically sealed.

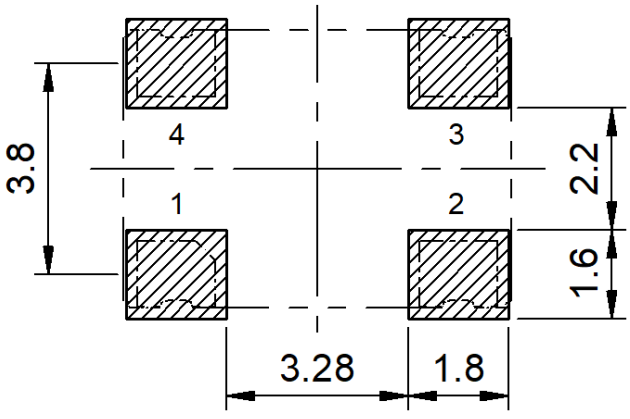
Dimensions [mm]



Pad No	Pad Connection
1	Enable/Disable
2	GND
3	Output
4	+Vs



Recommended Land Pattern [mm]



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Frequency Parameters

Frequency	16.0 MHz
Frequency Tolerance	INCLUSIVE
Frequency Stability	± 50 ppm
Operating Temperature	0 °C to 70 °C
Ageing	± 5 ppm max. per year

Output Details

Output Compatibility	CMOS
Drive Capability	15 pF typ., 30 pF max.

Start up time: 10 ms max, 1.1 ms typ to 90 % of final amplitude (under ideal conditions @ 25 °C).

Output Control

Standby Operation:
Logic '1' (>70% Vs) to pad 1 enables oscillator output.
Logic '0' (<30% Vs) to pad 1 disables oscillator output; the oscillator output goes to the high impedance state.
No connection to pad 1 enables oscillator output.
Standby Current: 10 µA max, 2.3 µA typ @ 25 °C

Material Parameters

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

Manufacturing Details

Reflow: 260 °C max for 10 s max.

Electrical Parameters

Supply Voltage	5 V ± 10 %
Current Consumption	23 mA max.
Rise Time $\mathbf{t_r}$	10 ns max.
Fall Time $\mathbf{t_f}$	10 ns max.
Duty Cycle	40/60 %

Note: parameters are referenced to 15pF load.

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

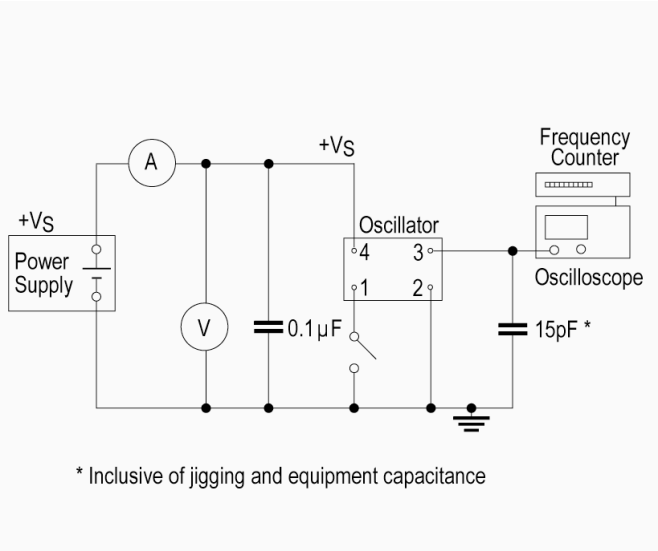
RoHS Status	2015/863/EU - Compliant
REACH Status	(EC)1907/2006 - Compliant

Packaging Details

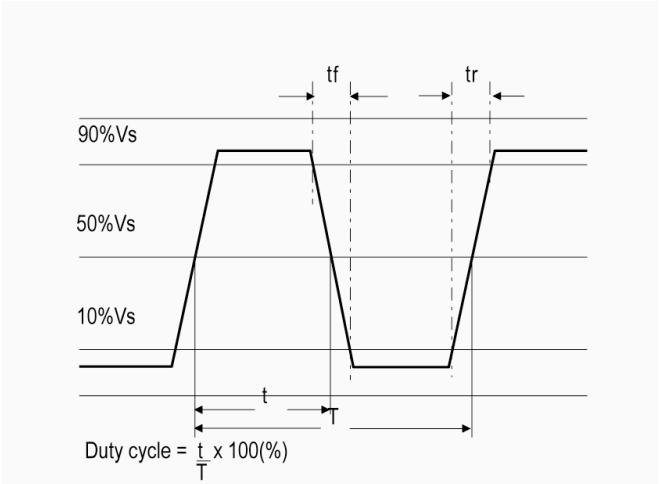
Packaging SPQ	Tape & Reel 1000 pcs

Tape & reel in accordance with EIA-481
Quantities below the standard reel size to be supplied on cut tape.

Test Circuit



Waveform



Company Address

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