



Description

- Standard 7 x 5mm crystal oscillator
Ceramic package with a seam sealed metal lid, hermetically sealed
- Model CFPS-73
- Model Issue number 12

Frequency Parameters

- Frequency 24.0MHz
- Frequency Tolerance @ 25°C INCLUSIVE
- Frequency Stability $\pm 50.00\text{ppm}$
- Operating Temperature Range 0.00 to 70.00°C
- Ageing $\pm 3\text{ppm}$ per year max

Electrical Parameters

- Supply Voltage 3.3V
- Supply Voltage Tolerance $\pm 10\%$
- Current Draw 12mA max

Output Details

- Output Compatibility HCMOS
- Output Load 50pF max
- Rise and Fall time 10ns max
- Duty Cycle 45/55%

Output Control

- 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: 10µA max

Environmental Parameters

- Shock: MIL-STD-202, Method 213, Condition E
- Vibration: MIL-STD-883, Method 2007, Condition A
- Storage Temperature Range: -55 to 125°C

Compliance

- RoHS Status Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

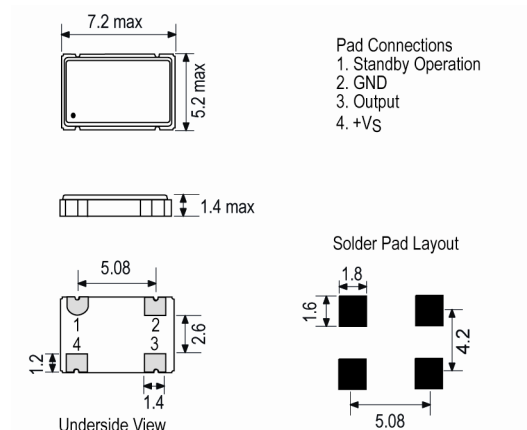
Packaging

- Pack Type: R250 Tape and reel of 250pcs
- Pack Size 250
- Alternative packing option available

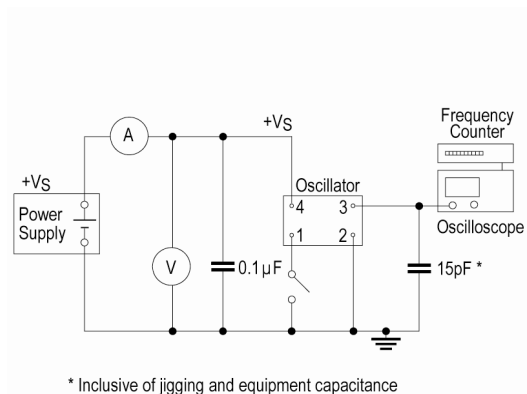
This document is correct at the time of printing; please contact your local office for the latest version.



Outline (mm)



Test Circuit



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Part No. + Packaging: **LFSPXO018541R250**

The graph shows a speed profile with the following phases and parameters:

- Acceleration:** From 10% V_S to 90% V_S with slope a .
- Constant Speed:** At 90% V_S for time t .
- Deceleration:** From 90% V_S to 10% V_S with slope $-a$.
- Dwell:** At 10% V_S for time t_f .
- Re-acceleration:** From 10% V_S to 90% V_S with slope a and time t_r .
- Period:** The total time for one cycle is T .

Duty cycle = $\frac{t}{T} \times 100(\%)$

VectorStar 10.000 Hz Ref: -30.000 dBm/Hz

1: 10 MHz -54.1168 dBm/Hz
 2: 100 MHz -90.7247 dBm/Hz
 3: 1 MHz -130.6784 dBm/Hz
 4: 10 kHz -149.5813 dBm/Hz
 5: 100 kHz -158.5234 dBm/Hz
 6: 1 MHz -163.1691 dBm/Hz
 7: 10 MHz -163.2688 dBm/Hz
 8: 20 MHz -164.0638 dBm/Hz
 9: 30 MHz -164.0638 dBm/Hz

XC Start 12 kHz
 SCOP 20 MHz
 Cursor 30.006 MHz
 Span 19,988 MHz

*** Noise ***
 Analysis Range X: Band Marker
 Analysis Range Y: Band Marker
 Integr noise: -90.6796 dBm / 19.99 MHz
 Ref Noise: -43.3485 dBm/Hz
 S/N: 2.36667 mdeg
 RMS jitter: 32.450 nsec
 Residual FM: 460.973 Hz

Page 2 of 2