

Customer Part:



Description

- Standard 7 x 5mm crystal oscillator in a ceramic package with a seam sealed metal lid, hermetically sealed.
- Model **CFPS-73**
- Model Issue number **14**

Frequency Parameters

- Frequency **83.0MHz**
- Frequency Stability **±50.00ppm**
- Operating Temperature Range **-40.00 to 85.00°C**
- Ageing **±3ppm per year max**

Electrical Parameters

- Supply Voltage **3.3V ±10%**
- Current Draw **30.000mA**
- Note: parameters are referenced to 15pF load

Output Details

- Output Compatibility **HCMOS**
- Drive Capability **15pF max**
- Rise and Fall Time **5.0ns max**
- Duty Cycle **45/55**
- Start up time: 10ms max.
0.9ms 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: 10µA max, 0.9µA typ @ 25°C

Noise Parameters

- Phase Noise @125MHz (typical):
10Hz -54dBc
100Hz -92dBc
1kHz -130dBc
10kHz -149dBc
100kHz -159dBc
1MHz -163dBc
- RMS Phase Jitter @125MHz: 52fs typical

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

Manufacturing Details

- RoHS Terminations **NiAu**
- RoHS Reflow Temp **260degC 10s**



Outline (mm)



Test Circuit



* Inclusive of jigging and equipment capacitance

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Customer Part:

Compliance

- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

- Pack Style: Bulk Loose in bulk pack
 Pack Size: 100
- *Alternative packing option available*

Wave Form



Phase Noise / Jitter



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