



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 **20.0MHz**
- Frequency Stability **±50.00ppm**
- Operating Temperature Range **0.00 to 70.00°C**
- Ageing **±3ppm per year max**

Electrical Parameters

- Supply Voltage **3.3V ±10%**
- Current Draw **12.00mA**

Output Details

- Output Compatibility **HCMOS**
- Drive Capability **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

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

Compliance

- RoHS Status (2011/65/EU) **Compliant**
- REACH Status **Compliant**
- MSL Rating (JDEC-STD-033): **Not Applicable**

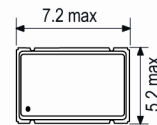
Packaging Details

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

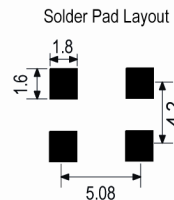
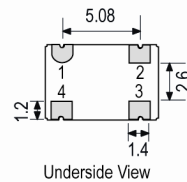
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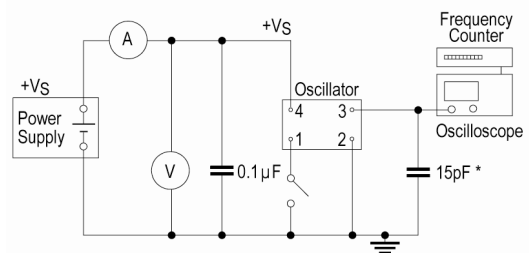
Outline (mm)



- Pad Connections
- Standby Operation
 - GND
 - Output
 - +VS



Test Circuit



* Inclusive of jigging and equipment capacitance

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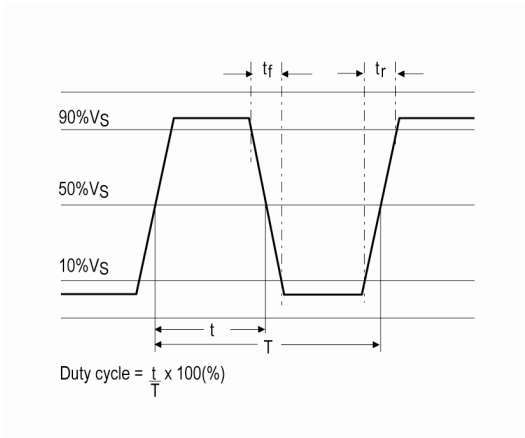
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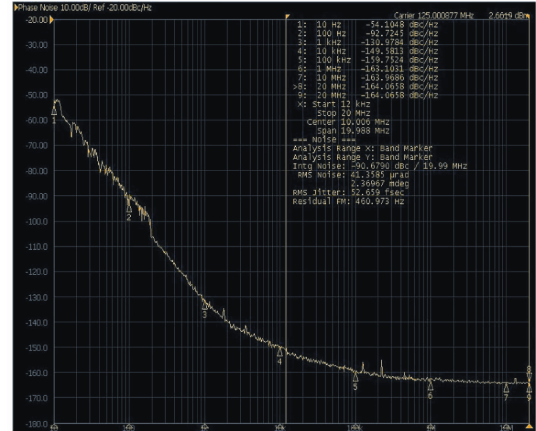
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Wave Form



Phase Noise / Jitter



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