

## Customer Part:



### Description

- 5 x 3.2mm crystal oscillator  
Ceramic package with a seam sealed metal lid, hermetically sealed
- Model CFPS-9
- Model Issue number 8
- 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.

### Frequency Parameters

- Frequency 25.00MHz
- Frequency Stability  $\pm 50.00$ ppm
- Operating Temperature Range -40.00 to 85.00°C
- Ageing  $\pm 3$ ppm max per year @25°C

### Electrical Parameters

- Supply Voltage 3.3V  $\pm 0.3$ V
- Current Draw 20.000mA

### Output Details

- Output Compatibility CMOS
- Drive Capability 15pF max
- Rise and Fall Time 10.0ns max
- Duty Cycle 40/60%
- Start up time: 10ms max, 0.8ms typ to 90% of final amplitude (under ideal conditions @25°C)

### Output Control

- Enable/Disable 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 $\mu$ A max, 0.9 $\mu$ A typ @25°C

### Environmental Parameters

- Storage Temperature Range: -55 to 125°C
- Shock: MIL-STD-202F, Method 213B: 1000G, 0.5ms, 1/2 sine wave
- Vibration: MIL-STD-202F, Method 204D, Test Condition D: 20G (10Hz-2000Hz), 4hrs in 3 mutually perpendicular planes (total 12hrs)

### Manufacturing Details

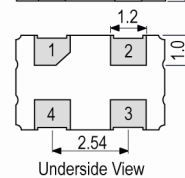
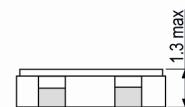
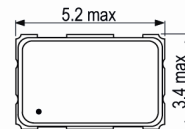
- RoHS Terminations NiAu
- RoHS Reflow Temp 260°C 10s max

### Compliance

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

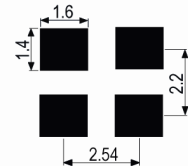


### Outline (mm)



Pad Connections  
1. Enable/Disable  
2. GND  
3. Output  
4. +Vs

### Solder Pad Layout



### Test Circuit



\* Inclusive of jigging and equipment capacitance

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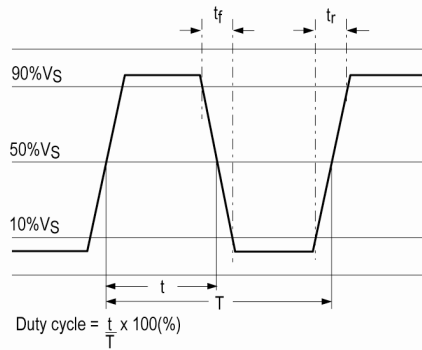
Customer Part:

Packaging Details

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

Standard Quantity: 1,000 Pieces

Wave Form



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