CFPS-611, -612

ISSUE 2; 30 JULY 1999

Delivery Options

- Please contact our sales office for current leadtimes

Output Compatibility

- Tri-state HCMOS
- Tri-state TTL
- Drive Capability: 50pF or 10 TTL (CFPS-611)
- Drive Capability: 30pF/10 LS TTL (CFPS-612)

Package Outline

- 7.0 × 5.0 × 1.6mm SMD (surface mount device) housed in a hermetically glass sealed ceramic package

Standard Frequencies

- 1.84320MHz, 2.0480MHz, 3.68840MHz, 4.0MHz, 4.0960MHz, 4.35450MHz, 4.433619MHz, 5.0MHz, 5.0688MHz, 6.0MHz, 6.1440MHz, 7.20MHz, 8.0MHz, 10.0MHz, 11.05920MHz,12.0MHz, 12.50MHz, 13.330MHz, 14.318180MHz, 16.0MHz, 18.4320MHz, 20.0MHz, 22.11840MHz, 24.0MHz, 25.0MHz, 26.660MHz, 27.0MHz, 29.49120MHz, 30.0MHz, 32.0MHz, 33.3330MHz, 33.86880MHz, 36.0MHz, 36.8640MHz, 40.0MHz, 44.23680MHz, 48.0MHz, 49.1520MHz, 50.0MHz, 60.0MHz, 65.5360MHz, 67.73760MHz, 71.50MHz, 80.0MHz

Standard Frequency Stabilities

- ±50ppm, ±100ppm (inclusive of supply voltage & output load variations over the operating temperature range)

Operating Temperature Range

- 0 to 70°C

Storage Temperature Range

- –55 to 125°C

Tri-state Operation

- Logic '1' to pad 1 enables oscillator output, 2.2V min
- Logic '0' to pad 1 disables oscillator output; when disabled the oscillator output goes to the high impedance state, 0.8V max

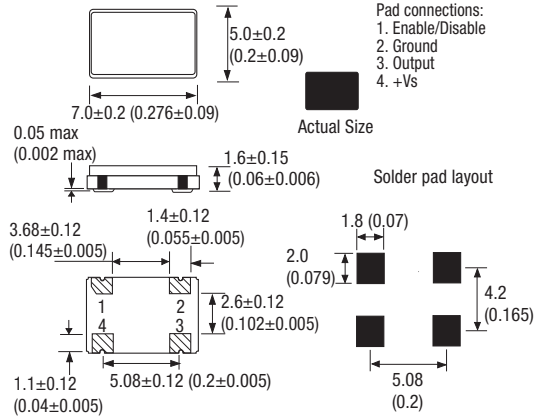
Marking

- Model number (+ Operating Temperature Code; if applicable)
- Frequency Stability Code
- Frequency

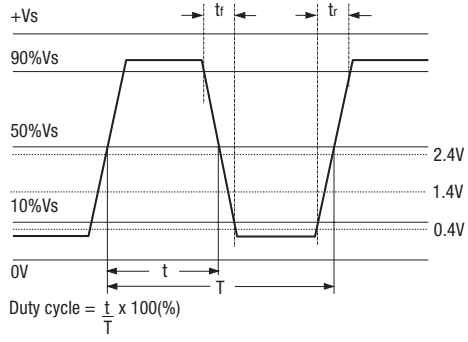
Minimum Order Information Required

- Frequency + Model Number + Operating Temperature Code (if applicable) + Frequency Stability

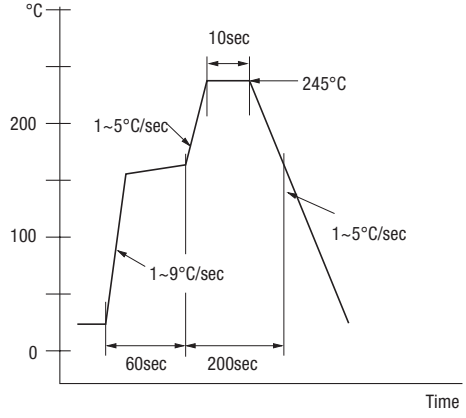
Outline in mm (inches) - (scale 2:1)



Output Waveform - HCMOS/TTL



Typical Solder Condition - Infrared Reflow



SURFACE MOUNT SPXOs

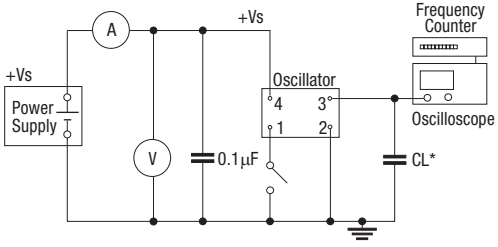
Electrical Specification – maximum limiting values when measured in HCMOS test circuit

Frequency Range	Frequency Stability	Supply Voltage	Supply Current	Rise Time (t_r)	Fall Time (t_f)	Duty Cycle	Model Number
1.5 to < 20.0MHz	±50ppm ±100ppm	3.3V±0.3V	10mA	10ns	10ns	40/60%	CFPS-612
		5.0V±0.5V	20mA				CFPS-611
20.0 to < 50.0MHz	±50ppm ±100ppm	3.3V±0.3V	20mA	10ns	10ns	40/60%	CFPS-612
		5.0V±0.5V	35mA				CFPS-611
50.0 to 66.666MHz	±50ppm ±100ppm	3.3V±0.3V	25mA	10ns	10ns	40/60%	CFPS-612
		5.0V±0.5V	60mA				CFPS-611

Ordering Example 24.0MHz CFPS-611 B

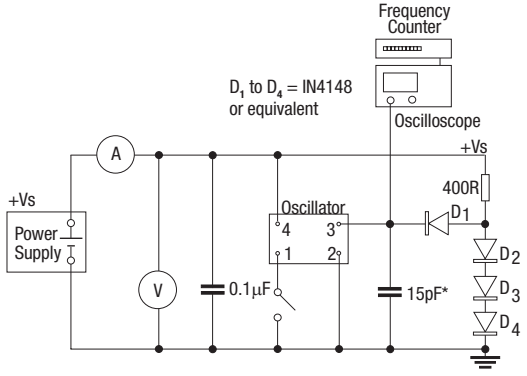
Frequency
Model No
Frequency Stability: B = ±50ppm; C= ±100ppm

Test Circuit - HCMOS



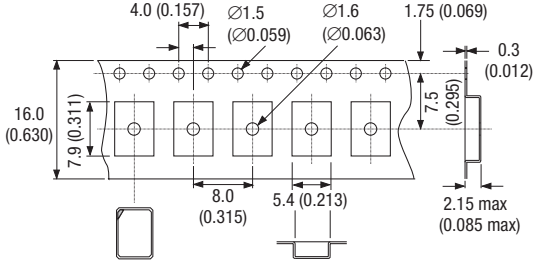
* Inclusive of jigging & equipment capacitance
Note: CL = 50pF for model CFPS-611 and 15pF for model CFPS-612

Test Circuit - TTL (CFPS-611)



*Inclusive of jigging & equipment capacitance

Outline in mm (inches) - Tape



Outline in mm (inches) - Reel (scale 1:8)