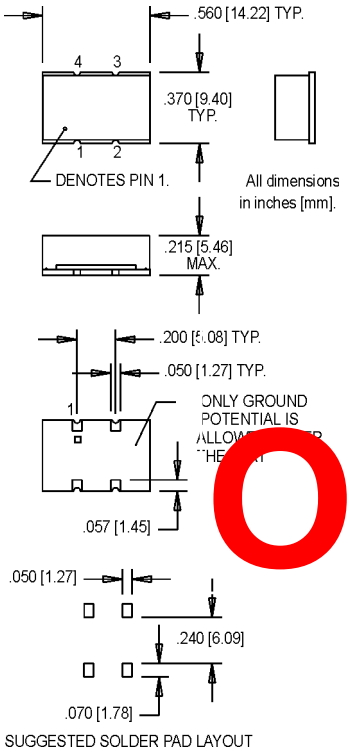
F1400A Series
9x14 mm FR-4, 5.0 Volt, Sinewave, Clock Oscillator

- Former Champion Technologies, Inc. Product

Ordering Information

F1400A X 00.0000 MHz

- Product Series
- Temperature Range
  - Blank: 0°C to +70°C
  - M: -40°C to +85°C
- Frequency (customer specified)



SUGGESTED SOLDER PAD LAYOUT

Pin Connections

PIN	FUNCTION
1	N/C
2	Ground & Case Ground
3	Output
4	+Vdd

OBSOLETE

	PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition
Electrical Specifications	Frequency Range	F	70		210	MHz	
	Frequency Stability	ΔF/F					
	Overall		Inclusive of calibration, temperature oltage, load				
	0°C +70°C				±25	m	
	40°C to						
	Operating Temperature	TA	0		+85		
	Storage Temperature						
	Input Voltage	Vdd	4.75	5.0	5.25	V	
	Input Current	Idd			40	mA	
	Output Signal			Sinewave			
	Load				50	Ω	
	Output Power		0	3	6	dBm	
	Harmonics				-20	dBc	
	Sub-Harmonics & Spurious Modes				-70	dBc	
	Start up Time				10	ms	
	Phase Noise (Typical)	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	dBc/Hz
	@ 155.520 Mhz	-65	-95	-125	-145	-150	

Environmental	Temperature Cycle	MIL-STD-883, Method 1010, Condition B	-55°C to +125°C; Air-toAir; 100 cycles; 10 min. dwell
	Mechanical Shock	MIL-STD-883, Method 2002, Condition B	1500 g's
	Vibration	MIL-STD-883, Method 2007, Condition B	20-2000 Hz; 0.06 inch; 15 g's; 3 planes
	Humidity Steady State	MIL-STD-202, Method 103	40°C; 90%-95% R.H.; 56 days
	Thermal Shock	MIL-STD-883, Method 1011.7, Cond. B	100°C to 0°C; Water-to-Water; 15 cycles
	Electrostatic Discharge	MIL-STD-883, Method 3015, Class II	2 KV to 4 KV Threshold
	Solderability	MIL-STD-883, Method 2022.2	Solder dip; Meniscograph Criteria
	Hermeticity	MIL-STD-883, Method 1014.8, Cond. A1	Mass spectro. 2 x 10-8 atoms. CC/sec He
	Resistance to Soldering	See "Figure 2" on page 147	
	Lead Integrity	MIL-STD-883, Mtd. 2004.5, Cond. A,B1	Lead tension & bend stress
	Marking Permanence	MIL-STD-883, Method 2015.8	Resistance to solvents
	Life Test	MIL-STD-883, Method 1005.6	125°C, powered, 1000 hours minimum

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