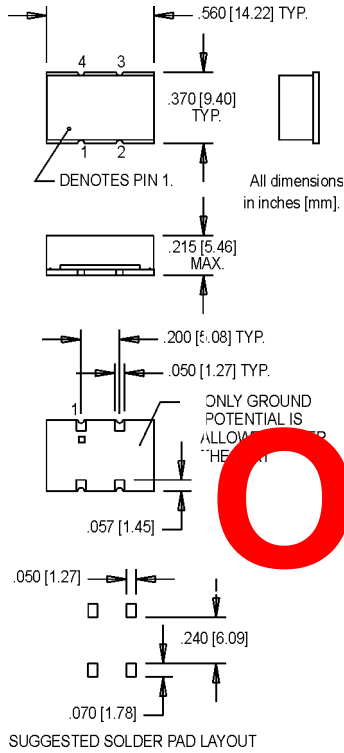
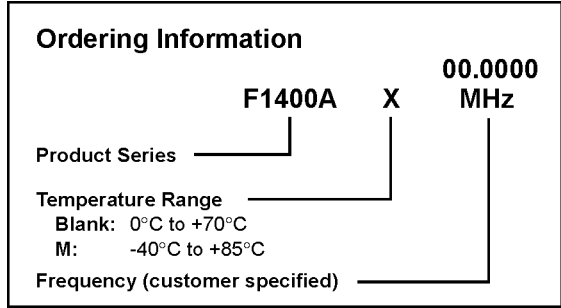


F1400A Series 9x14 mm FR-4, 5.0 Volt, Sinewave, Clock Oscillator



• Former **Champion** TECHNOLOGIES, INC. Product



Pin Connections

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

	PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition
Electrical Specifications	Frequency Range	F	70		210	MHz	
	Frequency Stability	$\Delta F/F$					
	Overall						Inclusive of calibration, temperature, voltage, load
	0°C to +70°C					±25	ppm
	0°C to +85°C					±50	
	Operating Temperature	T _A	0		+85		
	Storage Temperature						
	Input Voltage	V _{dd}	4.75	5.0	5.25	V	
	Input Current	I _{dd}			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	
Environmental	Phase Noise (Typical) @ 155.520 Mhz	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	dBc/Hz
			-65	-95	-125	-145	-150
	Temperature Cycle		MIL-STD-883, Method 1010, Condition B			-55°C to +125°C; Air-to-Air; 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	

M-tron reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application. No rights under any patent accompany the sale of such product.

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