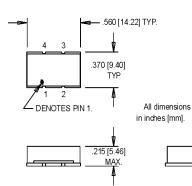
## F1139BA Series 9x14 mm FR-4, 3.3 Volt, PECL, Clock Oscillator

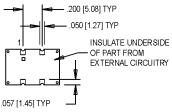






- Former Champion Product
- Clock Recovery, Optic Transmission Equipment, **Digital Cross Connect Equipment**





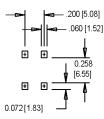
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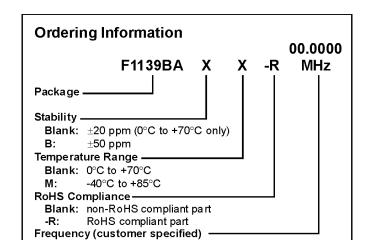
Pin Connections				
PIN	FUNCTION			
1	Output			
2	Vss/Ground			
3	Output			

+Vcc

4

SUGGESTED SOLDER PAD LAYOUT





	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes
Specifications	Frequency Range	F	70		200	MHz	
	Operating Temperature	TA	(See Ordering Information)				
	Storage Temperature	Ts	-40		+85	°C	
	Frequency Stability	∆ <b>F/F</b>	(See Ordering Information)				See Note 1
	Aging						
	1st Year			±2		ppm	
cific	Thereafter (per year)			±1		ppm	
bed	Input Voltage	Vcc	3.135	3.3	3.465	V	
	Input Current	lcc			70	mA	
tric	Output Type						PECL
Electrical	Load		50 $\Omega$ to (Vcc - 2V) or Thevenin equivalent				
	Symmetry (Duty Cycle)		45		55	%	(Vcc - 1.3) ref. level
	Output Skew				100	ps	50%
	Logic "1" Level	Voh	Vcc-1.02		Vcc -0.72	V	50Ω into (Vcc -2) load
	Logic "0" Level	Vol	Vcc-1.95		Vcc-1.60	V	50Ω into (Vcc -2) load
	Rise Time	Tr			450	ps	20% to 80%
	Fall Time	Tf			450	ps	80% to 20%
	Start up Time				10	ms	
	Random Jitter	Rj		5	12	ps RMS	1-Sigma

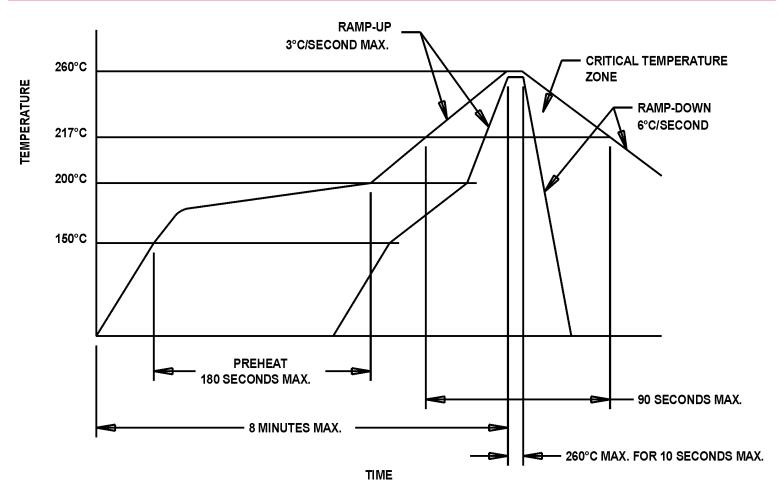
1. Inclusive of calibration, temperature, voltage, load and 10 years aging.

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Please see www.mtronpti.com for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.

## **Mtron PTI**<sup>®</sup>

## **MtronPTI Lead Free Solder Profile**



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