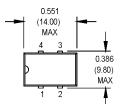
## M3R Series 9x14 mm, 3.3 Volt, HCMOS/TTL, Clock Oscillator

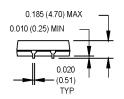












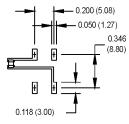
0.200 (5.08)



All dimensions in inches (mm).



SUGGESTED SOLDER PAD LAYOUT



NOTE: A capacitor of value 0.01  $\mu$ F or greater between Vdd and Ground is recommended.

			•	_				00.00
	M3R	1	3	۲.	A	J	-R	MHz
<b>B I</b> ( <b>A</b> )								
Product Series —								
Temperature Range	ə ———							
1: 0°C to +70°C								
2: -40°C to +85°C								
6: -20°C to +70°C								
Stability —								
3: ±100 ppm 4:	$\pm$ 50 ppm							
6: ±25 ppm*								
Output Type ——								
F: Fixed								
Symmetry/Logic C A: 40/60 TTL/HCM				100				
Package/Lead Con				103				
J: J Lead	ingulation	3						
<b>RoHS</b> Compliance								
Blank: non-RoHS		o rt						

\*0°C to 70°C only

## **Pin Connections**

PIN	FUNCTION
1	N/C or Tristate
2	Ground
3	Output
4	+Vdd

	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes
Electrical Specifications	Frequency Range	F	1		80	MHz	
	Operating Temperature	TA	(See Ordering Information)				
	Storage Temperature	Ts	-55		+125	°C	
	Frequency Stability	∆F/F	(See Ordering Information)				
	Aging						
	1st Year		-5		+5	ppm	
	Thereafter (per year)		-5		+5	ppm	
	Input Voltage	Vdd	3.0	3.3	3.6	V	
	Input Current	ldd			15	mA	1.000 to 27.000 MHz
					20	mA	27.001 to 50.000 Mhz
					40	mA	50.001 to 80.000 MHz
	Output Type						HCMOS/TTL
	Load				15	pF	See Note 1
	Symmetry (Duty Cycle)		(See Ordering Information)				50% Vdd Level
	Logic "1" Level	Voh	90% Vdd			V	HCMOS Load
	Logic "0" Level	Vol			10% Vdd	V	HCMOS Load
	Output Current				± <b>4</b>	mA	
	Rise/Fall Time	Tr/Tf			8	ns	See Note 2
	Tristate Function		Input Logic "1" or floating; output active Input Logic "0"; output disables to high-Z				
	Start up Time				10	ms	
	Random Jitter	Rj		5	12	ps RMS	1-Sigma

1. See load circuit diagram #2

2. Rise/Fall times are measured between 10% Vdd and 90% Vdd with HCMOS load

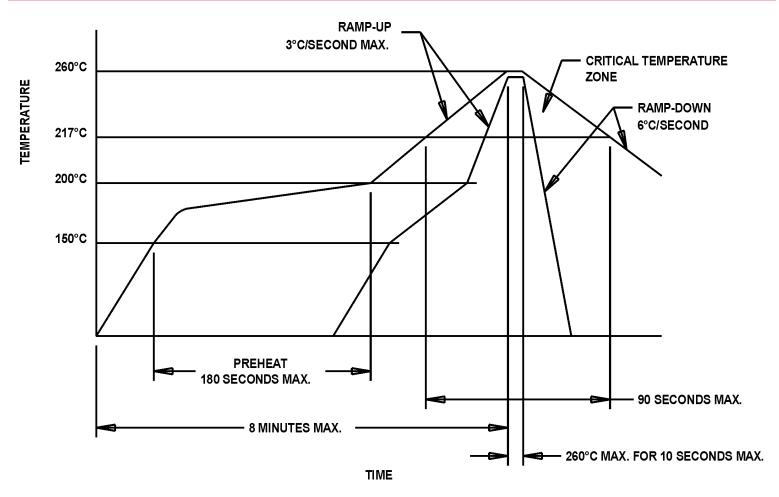
3. TTL output drive capability is 2 TTL (10 LS-TTL)

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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.

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## **MtronPTI Lead Free Solder Profile**



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