M8R Series

9x16 mm, 3.3 Volt, HCMOS/TTL, Clock Oscillator

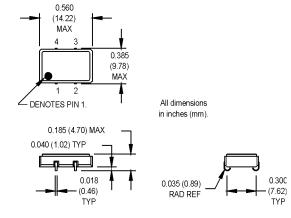


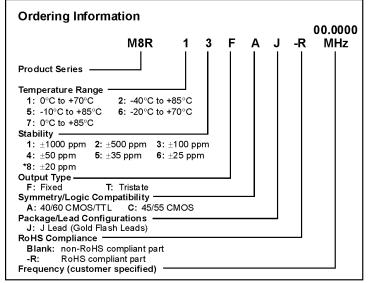






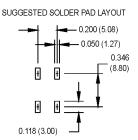
These are non-PLL based high frequency oscillators intended for applications that require low phase jitter. For frequencies 80.000 MHz and below, please see the M8S series.





*Consult Factory for availability

0.200 (5.08) TYP



Pin Connections

PIN	FUNCTION				
1	N/C or Tri-state				
2	Gro und				
3	Output				
4	+Vdd				

	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition	
	Frequency Range	F	80.001		125	MHz		
	Frequency Stability	∆ F/F	(See Ordering Information)					
	Operating Temperature	TA	(See Ordering Information)					
Suc	Storage Temperature	Ts	-55		+125	°C		
atic	Input Voltage	Vdd	3.15	3.3	3.45	V		
]iji	Input Current	ldd			50	mA		
bec	Symmetry (Duty Cycle)		(See Ordering Information)				See Note 1	
a s	Load		2 TTL or 15 pF				See Note 2	
iri	Rise/Fall Time	Tr/Tf			4	ns	See Note 3	
Electrical Specifications	Logic "1" Level	Voh	90% Vdd			V	HCMOS load	
			Vdd -0.5			V	TTL load	
	Logic "0" Level	Vol			10% Vdd	V	HCMOS load	
					0.5	V	TTL load	
	Cycle to Cycle Jitter			5	20	ps RMS	1 Sigma	
	Tri-state Function		Pin 1 logic "1" or floating; output active					
			Pin 1 logic "0"; output disables to high-Z					
<u></u>	Mechanical Shock	Per MIL-STD-202, Method 213, Condition C						
Environmental	Vibration	Per MIL-STD-202, Method 201 & 204						
l m	Reflow Solder Conditions	240°C for 10 s max.						
vir	Hermeticity							
Ë	Solderability							

- 1. Symmetry is measured at 1.4 V with TTL load, and at 50% Vdd with HCMOS load.
- 2. TTL load see load circuit diagram #1. HCMOS load see load circuit diagram #2.
- 3. Rise/Fall times are measured between 0.5 V and 2.4 V with TTL load, and between 10% Vdd and 90% Vdd with HCMOS load

MtronPTI 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.