## M7S & M8S Series

## 9x14 mm, 5.0 or 3.3 Volt, HCMOS/TTL, Clock Oscillator



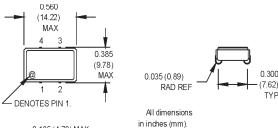


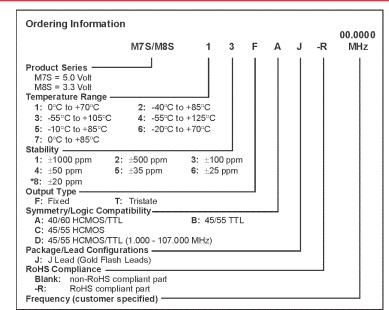




## This product is not recommended for new de

- J-lead ceramic package
- Wide operating temperature range
- RoHS version (-R) available



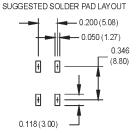


<sup>\*</sup> Contact factory for availability.

M2005Sxxx & M2015Sxxx - Contact factory for datasheets.

0.185 (4.70) MAX 0.040 (1.02) TYP
0.018 0.046) TYP
0.200





## **Pin Connections**

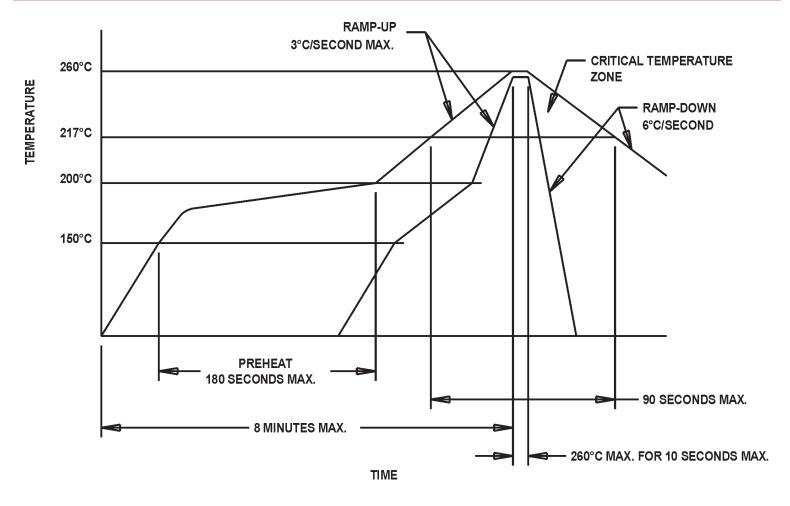
PIN	FUNCTION						
1	N/C or Tristate						
2	Ground						
3	Output						
4	+Vdd						

	PARAMETER	Sym	lodr	Min.	Тур.	Max.	Units	Condition/Notes	
	Frequency Range	F		1		125	MHz		
	Operating Temperature	TA		(See ordering information)					
	Storage Temperature	Ts		-55		+125	°C		
	Frequency Stability	ΔF/F		(See ordering information)			1)		
	Aging 1st Year				±3		ppm		
	Thereafter (per year)				±2		ppm		
	Input Voltage	Vdd		4.5 3.135	5.0 3.3	5.5 3.465	V V	M7S M8S	
	Innut Cumunt	ldd		3.135	3.3		å	M7S	
	Input Current Id					85 35	mA mA	M8S	
	Output Type					33	IIIA	HCMOS/TTL	
cifications	Load M7S			10 TTL or 50 pF 10 TTL or 15 pF 10 TTL or 15 pF			See Note 1 1.000 to 80.000 MHz 80.001 to 125.000 MHz 1.000 to 125.000 MHz		
e e	Symmetry (Duty Cycle)					ng information	1)		
Electrical Specifications	Logic "1" Level	Voh		90% Vdd Vdd-0.5			V	HCMOS Load TTL Load	
	Logic "0" Level	Vol				10% Vdd 0.5	V V	HCMOS Load TTL Load	
	Output Current 1 to 80 MHz 80.001 to 125 MHz 1 to 80 MHz 80.001 to 125 MHz Rise/Fall Time 1 to 40 MHz	Tr/Tf			ORGONO CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONT	±16 +16/-8 ±8 +8/-4	mA mA mA mA	M7S M7S M8S M8S	
	40.001 to 125 MHz					5/4	ns	M7S/M8S	
	Tristate Function			Input Logic "1" or floating: output active Input Logic "0": output disables to high-Z					
	Start up Time					10	ms		
	Random Jitter 1-Sigma	Rj			5 40	12 100	ps RMS ps RMS	1.000 to 80.000 MHz 80.001 to 125.000 MHz	
ıtal	Mechanical Shock MIL-STD-202, Method 213, C (100 g's)								
le l	Vibration			STD-202, Method 201 & 204 (10 g/s) from 10-2000 Hz)					
Environmental	Thermal Cycle			L-STD-202, Method 201 & 204 (10 g s iroth 10-2000 Hz)  L-STD-883, Method 1010, B (-55°C to +125°C, 15 min dwell, 10 cycles)					
ir	Hermeticity			MIL-STD-883, Method 1010, B (-55°C to +125°C, 15 min awell, 10 cycles)					
lá			Per EIAJ-STD-002						
_			See solder profile, Figure 1						
ļ	TITL load - see Load Circuit Diagram #1. HCMOS load - see Load Circuit Diagram #2.								

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