M7S & M8S Series

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

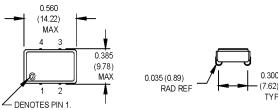


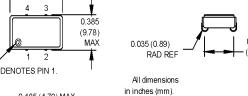


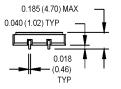


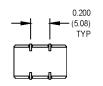


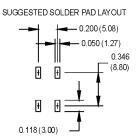
- J-lead ceramic package
- Wide operating temperature range
- RoHS version (-R) available





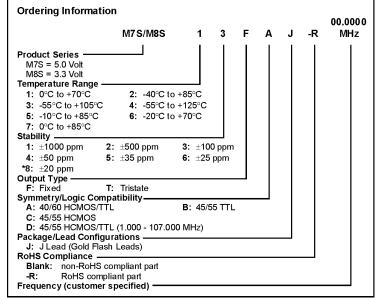






Pin Connections

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



* Contact factory for availability.

	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes
	Frequency Range	F	1	1	125	MHz	
	Operating Temperature	TA	(See Ordering Information)				
	Storage Temperature	Ts	-55 +125			°C	
	Frequency Stability	∆F/F	(See Ordering Information)				
	Aging						
	1st Year			±3		ppm	
	Thereafter (per year)			±2		ppm	
	Input Voltage	Vdd	4.5	5.0	5.5	V	M7S
			3.135	3.3	3.465	V	M8S
	Input Current	ldd			85	mA	M7S
					35	mA	M8S
ns	Output Type						HCMOS/TTL
Electrical Specifications	Load (M7S)		10 TTL or 50 pF 10 TTL or 15 pF				See Note 1 1.000 to 80.000 MHz 80.001 to 125.000 MHz
တ္တ	Load (M8S)		10 TTL or 15 pF				1.000 to 125.000 MHz
ical	Symmetry (Duty Cycle)		(See Ordering Information)				See Note 2
ctr	Logic "1" Level	Voh	90% Vdd			V	HCMOS Load
ă			Vdd -0.5			V	TTL Load
	Logic "0" Level	Vol			10% Vdd	V	HCMOS Load
					0.5	V	TTL Load
	Output Current						
	1 to 80 MHz				±16	mA	M7S
	80.001 to 125 MHz				+16/-8	mA	M7S
	1 to 80 MHz				±8	mA	M8S
	80.001 to 125 MHz				+8/-4	mA	M8S
	Rise/Fall Time	Tr/Tf					See Note 3
	1 to 40 MHz				7/6	ns	M7S/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				
	Maximum Reflow Conditions		+240°C for +260°C for				non-RoHS part RoHS Compliant part
	Start up Time		5 ms				
	Random Jitter	Rj		5	12	ps RMS	1.000 to 80.000 MHz
	1-Sigma			40	100	ps RMS	80.001 to 125.000 MHz

1. TTL load - See load circuit diagram #1. HCMOS load - See load circuit diagram #2.

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.