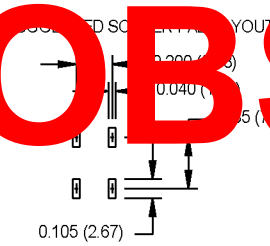
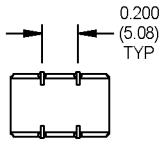
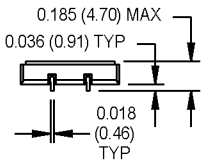
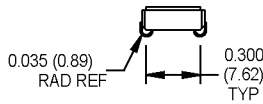
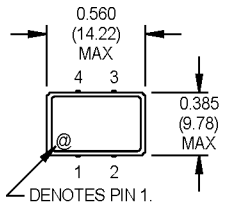


# M5S Series 3.3 Volt PECL Oscillators



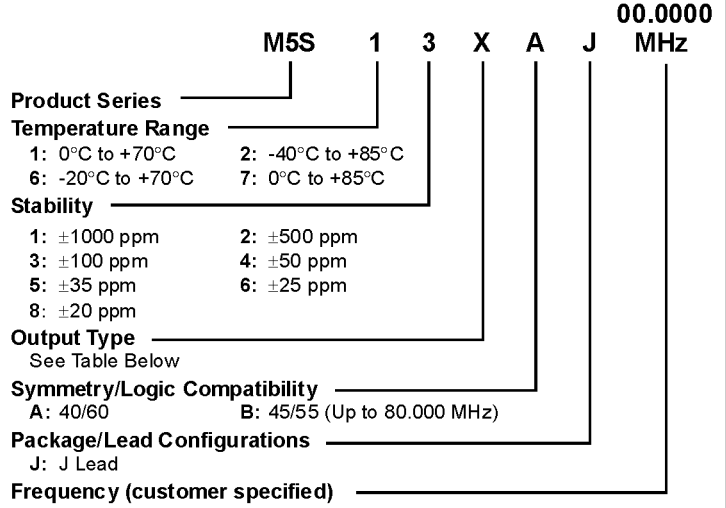
## M5S Series PECL Clock Oscillators with Optional Complementary Outputs. PLL Version



All dimensions in inches (mm).

**OBSOLETE**

### Ordering Information



### Pin Connections

PIN	FUNCTION(S) (Model Dependent)
1	N/C or Output #2
2	Case Ground
3	Output #1
4	+Vcc

### PECL Output Type

PIN FUNCTIONS:	X	Z
Single Output Pin 3	•	
Dual Output Pin 1 & 3		•
Pin 2 Case Ground	•	•
Pin 4 +Vcc	•	•

### Electrical Specifications

Standard Operating Conditions • 0°C to +70°C; Vcc = 3.3 ±5% VDC				
PARAMETERS	MIN.	TYP.	MAX.	UNITS
Frequency Range	19.440		100.000	MHz
Output Load <sup>1</sup>				
Symmetry <sup>2</sup>	40/60		60/40	%
Logic "0" Level			Vcc-1.63	V
Logic "1" Level	Vcc-0.98			V
Rise/Fall Time <sup>3</sup>			2.5	nS
Supply Current		50	90	mA

<sup>1</sup> Internally terminated outputs. See load circuit diagram #4 on page 137.  
<sup>2</sup> Symmetry is measured at Vcc-1.3 V level.  
<sup>3</sup> Rise/Fall times are measured between Vcc-0.98 and Vcc-1.63. Utilizes PLL clock generation. Not recommended for low jitter applications. See page 136, Figure "2" for suggested solder profile.

M-tron 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. No rights under any patent accompany the sale of such product.

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