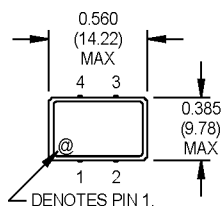
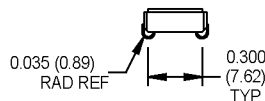
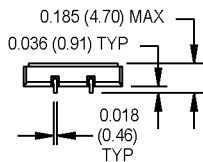
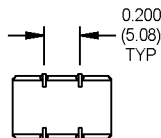


M5S Series 3.3 Volt PECL Oscillators



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



All dimensions in inches (mm).

Ordering Information

	M5S	1	3	X	A	J	00.0000 MHz
Product Series							
Temperature Range							
1: 0°C to +70°C							
6: -20°C to +70°C							
2: -40°C to +85°C							
7: 0°C to +85°C							
Stability							
1: ±1000 ppm							
3: ±100 ppm							
5: ±35 ppm							
8: ±20 ppm							
2: ±500 ppm							
4: ±50 ppm							
6: ±25 ppm							
Output Type							
See Table Below							
Symmetry/Logic Compatibility							
A: 40/60							
B: 45/55 (Up to 80.000 MHz)							
Package/Lead Configurations							
J: J Lead							
Frequency (customer specified)							

OBsolete

T	1	2	3	4	5	6	8
1	A	A	S	A	A	C	C
2	A	A	A	A	A	C	N
6	A	A	A	A	A	C	C
7	A	A	A	A	A	C	N

A = Available
N = Not Available
S = Standard
C = Consult Factory

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 ¹				
Symmetry ²	40/60		60/40	%
Logic "0" Level			Vcc-1.63	V
Logic "1" Level	Vcc-0.98			V
Rise/Fall Time ³			2.5	nS
Supply Current		50	90	mA

¹ Internally terminated outputs. See load circuit diagram #4 on page 137.

² Symmetry is measured at Vcc-1.3 V level.

³ 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.

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