

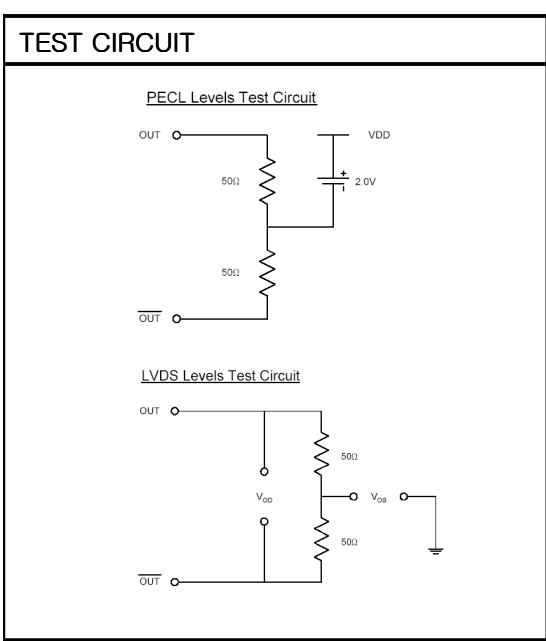
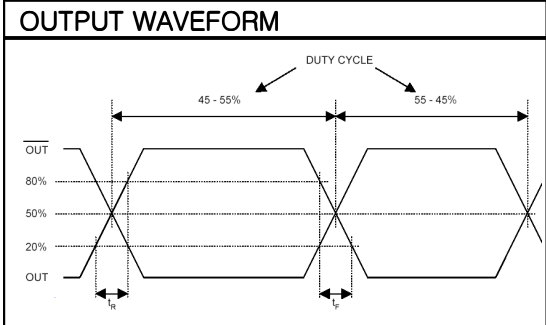
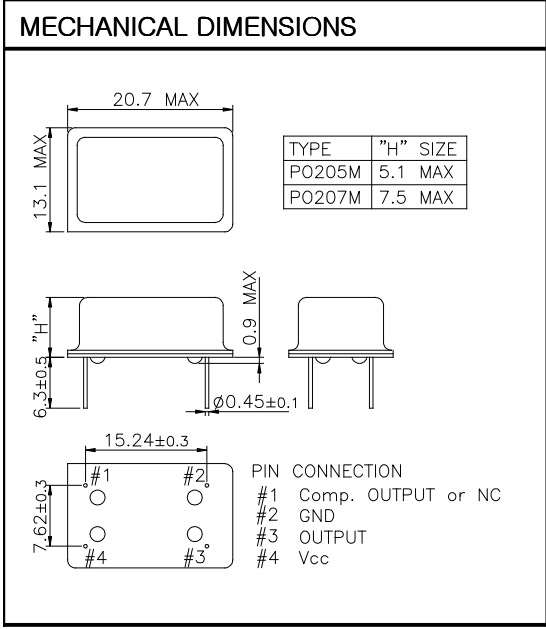
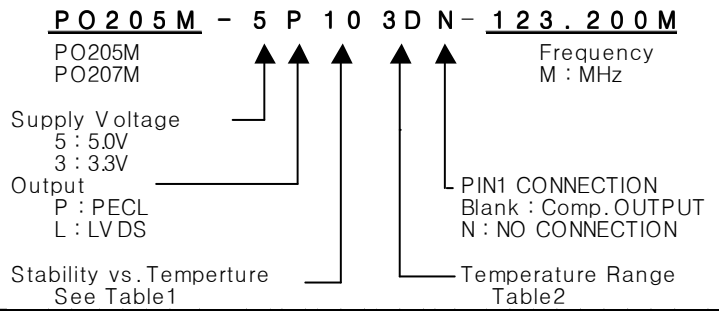
# OSC

## PO205M/PO207M Series

### PECL/LVDS

### 14PIN DIP PACKAGE

#### \* PART NUMBERING GUIDE



#### ELECTRICAL SPECIFICATION

Frequency range	0.75MHz to 800.000MHz All combination of Frequency range Vs. Package type might not be available ,please contact factory																								
Frequency Stability vs. Temperature vs. Aging	± 10 ppm to ±50ppm ±3.0 ppm max/ year																								
Temperature Range Operating Storage	See Table 2 -55°C to 105°C																								
Supply Voltage	3.3V ± 5% 5.0V ± 5%																								
Input Current 3.3 V , 5V	24.000MHz ~ 800.000MHz 25mA max ~ 100mA max																								
Output characteristics	<table border="1"> <thead> <tr> <th></th> <th>pecl</th> <th>lvds</th> </tr> </thead> <tbody> <tr> <td>Voh Logic "1"</td> <td>Vdd-1.025v min.</td> <td>1.43v typ.</td> </tr> <tr> <td>Vol Logic "0"</td> <td>Vdd-1.620v max.</td> <td>1.10v typ.</td> </tr> <tr> <td>Rise Time Tr</td> <td>1.0 nsec max.</td> <td>1.0 nsec max.</td> </tr> <tr> <td>Fall Time Tf</td> <td>1.0 nsec min.</td> <td>1.0 nsec min.</td> </tr> <tr> <td>Duty Cycle</td> <td>50//50 ± 5%</td> <td>50//50 ± 5%</td> </tr> <tr> <td>Differential Output</td> <td>Vod(Lvds)</td> <td>330mV typ.</td> </tr> <tr> <td>Offset Voltage</td> <td>Vos(Lvds)</td> <td>1.2V typ</td> </tr> </tbody> </table>		pecl	lvds	Voh Logic "1"	Vdd-1.025v min.	1.43v typ.	Vol Logic "0"	Vdd-1.620v max.	1.10v typ.	Rise Time Tr	1.0 nsec max.	1.0 nsec max.	Fall Time Tf	1.0 nsec min.	1.0 nsec min.	Duty Cycle	50//50 ± 5%	50//50 ± 5%	Differential Output	Vod(Lvds)	330mV typ.	Offset Voltage	Vos(Lvds)	1.2V typ
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JITTER (RMS)	Phase Jitter (12KHz ~ 20MHz) 1.0 psec MAX																								
Pin 1 Tri-State Input Voltage	<table border="1"> <tbody> <tr> <td>No Connection</td> <td>Disable Output</td> </tr> <tr> <td>Vh ≥ 2.0 Vdc</td> <td>Disable Output</td> </tr> <tr> <td>Vi ≤ 0.8 Vdc</td> <td>Enable Output</td> </tr> </tbody> </table>	No Connection	Disable Output	Vh ≥ 2.0 Vdc	Disable Output	Vi ≤ 0.8 Vdc	Enable Output																		
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#### ENVIROMENTAL & MECHANICAL SPECIFICATION

Shock	MIL-STD-883C, Method 2002, Condition B
Vibration	MIL-STD-883C, Method 2007, Condition A
Solderability	MIL-STD-883C, Method 2003
Seal integrity	MIL-STD-883C, Method 1014, Condition C & A2
Marking	MIL-STD-202F, Method 215

#### TABLE1

Symbol	Stability
10	± 10ppm
15	± 15ppm
20	± 20ppm
30	± 30ppm
50	± 50ppm
100	±100ppm

#### TABLE2

Symbol	Temp.	Symbol	Temp.
0	0°C	A	50°C
1	-10°C	B	60°C
2	-20°C	C	70°C
3	-30°C	D	75°C
4	-40°C	E	80°C
		F	85°C