

Excequal

Clock Oscillator

CO75

1MHz ~ 300MHz PECL or LVDS 50 ohm
TO Vcc-2.0V
or 100 ohm differential

MECHANICAL DIMENSIONS	ELECTRICAL SPECIFICATION																																											
<p>CONNECTION</p> <ul style="list-style-type: none"> #1 NC or E/D #2 N.C #3 GND #4 OUTPUT #5 COMP.OUTPUT #6 Vcc <p>Recommended Soldering Pattern</p>	<p>Frequency range: 35.000MHz to 200.000MHz All combination of Frequency range Vs. Package type might not be available ,please contact factory</p>																																											
<p>OUTPUT WAVEFORM</p>	<p>Frequency Stability vs. Temperature vs. Aging: ± 10 ppm to ±50ppm ±3.0 ppm max/ year</p> <p>Temperature Range: Operating: See Table 2, Storage: -55°C to 105°C</p> <p>Supply Voltage: 3.3V ± 5%</p> <p>Input Current: 3.3 V , 5V 35.000MHz ~ 200.000MHz 40mA max ~ 80mA max</p>																																											
<p>TEST CIRCUIT</p> <p>PECL Levels Test Circuit</p> <p>LVDS Levels Test Circuit</p>	<p>Output characteristics:</p> <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> <p>JITTER (RMS): Phase Jitter (12KHz ~ 20MHz) 1.0 psec MAX</p> <p>Pin 1 Tri-State Input Voltage: No Connection Disable Output, Vh ≥ 2.0 Vdc Disable Output, Vl ≤ 0.8 Vdc Enable Output</p>			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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<p>Shock: MIL-STD-883C, Method 2002, Condition B</p> <p>Vibration: MIL-STD-883C, Method 2007, Condition A</p> <p>Solderability: MIL-STD-883C, Method 2003</p> <p>Seal integrity: MIL-STD-883C, Method 1014, Condition C & A2</p> <p>Marking: MIL-STD-202F, Method 215</p>		<p>TABLE1</p> <table border="1"> <thead> <tr> <th>Symbol</th> <th>Stability</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>± 10ppm</td> </tr> <tr> <td>15</td> <td>± 15ppm</td> </tr> <tr> <td>20</td> <td>± 20ppm</td> </tr> <tr> <td>30</td> <td>± 30ppm</td> </tr> <tr> <td>50</td> <td>± 50ppm</td> </tr> <tr> <td>100</td> <td>±100ppm</td> </tr> </tbody> </table> <p>TABLE2</p> <table border="1"> <thead> <tr> <th>Symbol</th> <th>Temp.</th> <th>Symbol</th> <th>Temp.</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0°C</td> <td>A</td> <td>50°C</td> </tr> <tr> <td>1</td> <td>-10°C</td> <td>B</td> <td>60°C</td> </tr> <tr> <td>2</td> <td>-20°C</td> <td>C</td> <td>70°C</td> </tr> <tr> <td>3</td> <td>-30°C</td> <td>D</td> <td>75°C</td> </tr> <tr> <td>4</td> <td>-40°C</td> <td>E</td> <td>80°C</td> </tr> <tr> <td></td> <td></td> <td>F</td> <td>85°C</td> </tr> </tbody> </table>	Symbol	Stability	10	± 10ppm	15	± 15ppm	20	± 20ppm	30	± 30ppm	50	± 50ppm	100	±100ppm	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
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