

TCXO

PT145B Series

PECL/LVDS

6PAD SMD PACKAGE

* PART NUMBERING GUIDE

PT145BH - 5 P 10 3 D E - 20.000M

PT145B : without Trimmer
 PT145BH : with Trimmer

Supply Voltage
 5 : 5.0V
 3 : 3.3V

Output
 P : PECL
 L : LVDS

Stability vs. Temperature See Table1

Frequency M : MHz
 E : 1PIN E/D
 Blank : 1PIN NC

Temperature Range Table2

MECHANICAL DIMENSIONS	ELECTRICAL SPECIFICATION																																														
<p>PIN CONNECTION</p> <p>#1 N.C or E/D #2 N.C #3 GND #4 OUTPUT #5 COMP.OUTPUT #6 Vcc</p> <p>Recommended Soldering Pattern</p>	<p>Frequency range: 8.00MHz to 1500.000MHz (All combinations for Frequency in the range and temp. stability can't be available, please contact factory.)</p> <p>Frequency Stability vs. Temperature: ±0.5 ppm to ±5.0ppm vs. Supply Voltage: ±0.1 / ±0.3 ppm max / Vdd ± 5% vs. Load: ±0.2 ppm max / 15pF ±10% vs. Aging: ±1.0 ppm max/ year</p> <p>Temperature Range Operating: See Table 2 Storage: -55°C to 125°C</p> <p>Supply Voltage: 3.3V ± 5% 5.0V ± 5%</p> <p>Input Current 3.3 V , 5V: 8.000MHz ~ 1500.000MHz 60mA max ~ 100mA max</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 Vod(Lvds)</td> <td></td> <td>330mV typ.</td> </tr> <tr> <td>Offset Voltage Vos(Lvds)</td> <td></td> <td>1.2V typ.</td> </tr> </tbody> </table> <p>Phase Noise (typical) @20MHz</p> <ul style="list-style-type: none"> -80 dBc / Hz @ 10Hz -120 dBc / Hz @ 100Hz -135 dBc / Hz @ 1KHz -140 dBc / Hz @ 10KHz -145 dBc / Hz @100KHz <p>Frequency Adjustment: ±3ppm min by internal trimmer (Option/PT145BH only)</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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