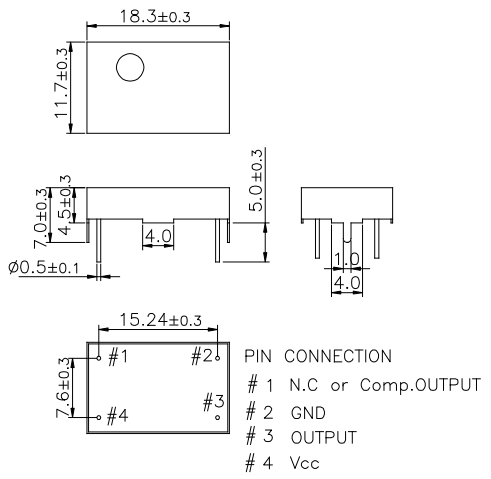
TCXO
PT184A Series
PECL/LVDS
14PIN DIP PACKAGE

* PART NUMBERING GUIDE

PT184A - 5 P 10 3D C - 20.000M

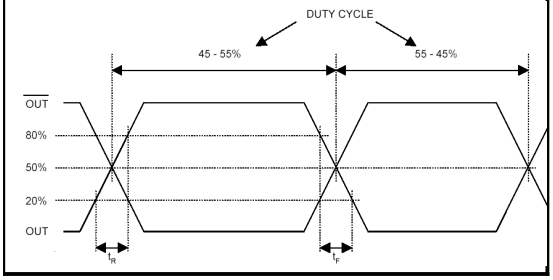
- Frequency: M : MHz
- C : 1PIN Comp.OUTPUT, Blank : N.C
- Supply Voltage: 5 : 5.0V, 3 : 3.3V
- Output: P : PECL, L : LVDS
- Stability vs. Temperture: See Table1
- Temperature Range: Table2

MECHANICAL DIMENSIONS

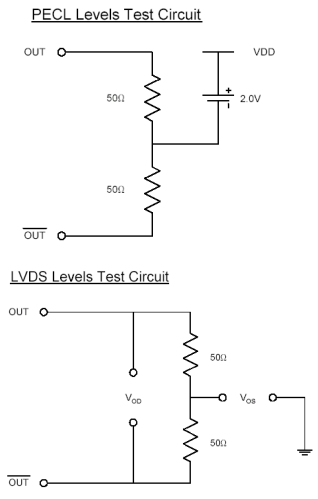


PIN CONNECTION
1 N.C or Comp.OUTPUT
2 GND
3 OUTPUT
4 Vcc

OUTPUT WAVEFORM



TEST CIRCUIT



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. Supply Voltage vs. Load vs. Aging	 ±0.5 ppm to ±5.0ppm ±0.1 / ±0.3 ppm max / Vdd ± 5% ±0.2 ppm max /15pF ±10% ±1.0 ppm max/ year
Temperature Range Operating Storage	 See Table 2 -55℃ to 125℃
Supply Voltage	3.3V ± 5% 5.0V ± 5%
Input Current 3.3 V , 5V	24.000MHz ~ 800.000MHz 25mA max ~ 100mA max
Output characteristics	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.
Phase Noise (typical) 20MHz offset	-80 dBc / Hz @ 10Hz -120 dBc / Hz @ 100Hz -135 dBc / Hz @ 1KHz -140 dBc / Hz @ 10KHz -145 dBc / Hz @100KHz
Frequency Adjustment	±3ppm min by internal trimmer

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
05	±0.5ppm
10	±1.0ppm
15	±1.5ppm
20	±2.0ppm
25	±2.5ppm
30	±3.0ppm
35	±3.5ppm
50	±5.0ppm

TABLE2

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

3949, Seongnam-dong, Joongwon-gu, Seongnam-Si, Kyunggi-Do, 462-130, Korea
Tel : (031) 753-9555~6, Fax : (031) 753-7355, sales@paselectronics.co.kr

PAS ELECTRONICS