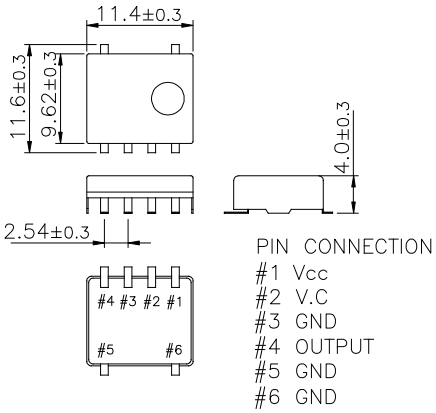
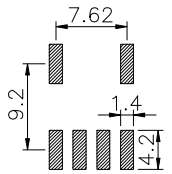
Mechanical Drawing and PIN Connections



PIN CONNECTION
#1 Vcc
#2 V.C
#3 GND
#4 OUTPUT
#5 GND
#6 GND

Recommended Soldering Pattern



Specification

ELECTRICAL SPECIFICATION	
Frequency range	1.250MHz to 50.000MHz
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	1.250MHz ~ 50.000MHz 15mA max ~ 40mA max
Output characteristics	HCMOS / TTL Logic "1" 90% Vdd min / 2.4V min Logic "1" 10% Vdd max / 0.4V min Load 15pF / 10TTL Duty Cycle 40/60 / 40/60 Rise & Fall 10nS max / 10nS max
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
Voltage Control Characteristics	
Output Pulling Range (△F/△V) Control Voltage Range	±5.0ppm or ±10ppm min (△F/△V >±20ppm is available, please contact us) 1.65V ± 1.5V (Vdd : 3.3V), 2.5V ± 2.0V (Vdd : 5.0V)

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

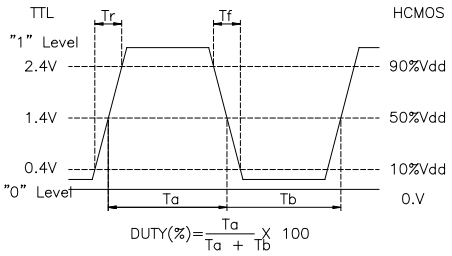
TABLE1

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

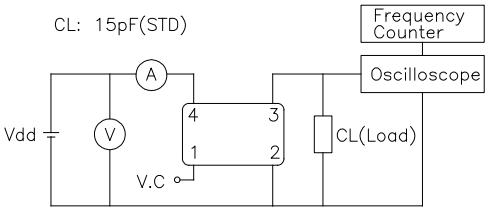
TABLE2

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℃

Output Waveform



Test Circuit



Ordering Information

GSTX1209-T-5-xx-yy-5-zz.zzz MHz

The " H " stands for HCMOS and is not selected by the customer for this model

The " 6 " stands for 6-pads

The " T " stands for trimmer mechanical frequency adjust and is NOT selected by the customer for this model

5 or 3 : Stands for 5V or 3.3V

xx : can be based on 2-digit code from Table 1

yy : based on codes in Table 2

5 : means +/- 5 ppm min electronic frequency adjust ; 10 : means +/- 10 ppm min. electronic frequency adjust ; 20 : means +/- 20 ppm min

zz.zzz : is the operating frequency in MHz