



STA

- Temperature compensated crystal oscillator
- HCMOS / TTL output
- Clipped sinewave output available
- 5.0V & 3.3V supply voltage
- Internal or external voltage Control option available

ELECTRICAL SPECIFICATIONS

OUTPUT	TTL/HCMOS		CLIPPED SINEWAVE	
Frequency Range	1.200 to 100.000MHz		9.600 to 35.000MHz	
Load Drive Capability	10TTL Load or 15pF HCMOS Load Max		10kOhms/10pF	
Output Voltage	Logic High(VOH) w/TTL : 2.4VDC Min w/HCMOS : 90% of VDD Min Logic Low(VOL) w/TTL : 0.4VDC Max w/HCMOS : 10% of VDD Max		1.0Vp-p Min (VDD : 5.0VDC) 0.8Vp-p Min (VDD : 3.3VDC)	
Frequency Stability vs. Operating Temperature Range vs. Input Voltage (±5%) vs. Load (±10%)	See Table 1 ±0.3 ppm Max ±0.3 ppm Max			
Supply Voltage(VDD)	5.0VDC ±5%	3.3VDC ±5%	5.0VDC ±5%	3.3VDC ±5%
Input Current	1.200 to 27.000MHz 20mA Max	15mA Max	9.600 to 27.000MHz 2mA Max	1.5mA Max
	27.001 to 100.000MHz 35mA Max	30mA Max	27.001 to 35.000MHz 3mA Max	2.5mA Max
Rise / Fall Time	5nsec Max	4nsec Max		
Duty Cycle	50 ±10(%)			
Internal Trim (Top of Can)	±3ppm Min			
Aging (at 25°C)	±1ppm/year Max			

TOP

TABLE1 : PART NUMBERING CODES

OPERATING TEMPERATURE		FREQUENCY STABILITY ($\pm$ PPM) * Denotes Availability (# : not availabel in 25MHz ~ 100MHz)							
Range	Code	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
0~50°C	A	*	*	*	*	*	*	*	*
-10~60°C	B	*	*	*	*	*	*	*	*
-10~70°C	C	#	*	*	*	*	*	*	*
-20~70°C	D	#	*	*	*	*	*	*	*
-30~60°C	E		#	*	*	*	*	*	*
-30~70°C	F		#	*	*	*	*	*	*
-30~75°C	G			*	*	*	*	*	*
-40~80°C	H					*	*	*	*

MECHANICAL DIMENSIONS

► STA

