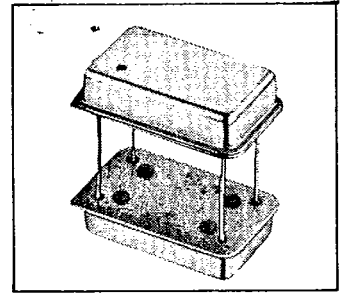
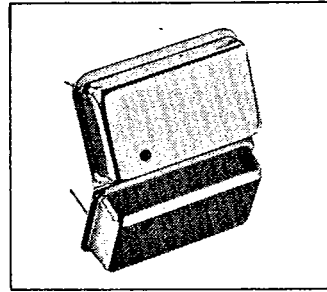


# CLOCK OSCILLATOR

## Introduction

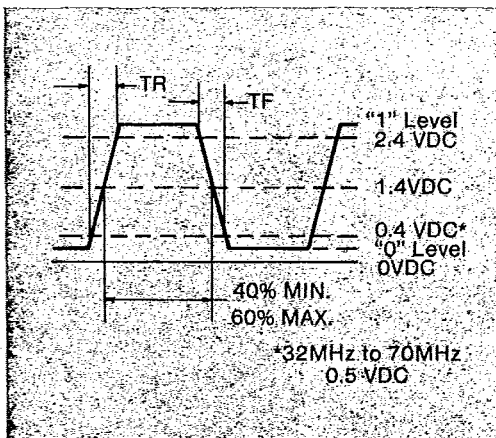
The ITT Clock Oscillator is designed to give high quality performance, to fit your custom needs, at a cost that will also fit your budget. This oscillator is TTL compatible, uses standard +5 VDC input and drives up to 10 TTL loads. The internal IC design allows optimum performance in frequencies ranging from 250 KHZ to 70 MHZ. The outer package is an all metal resistance welded can. Our oscillators are interchangeable with most major competitors.



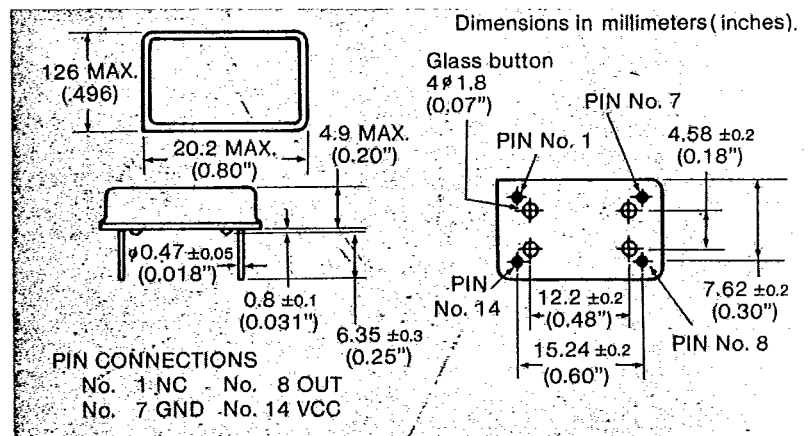
## Electrical Specifications

Frequency Range:	250 KHZ to 70 MHZ	
Frequency Stability:	±.0025% to .10% @ 25°C Operating Temp. Range	
Temperature Range:	Operating 0°C to 70°C	Storage -55°C to 70°C
Input Voltage:	+5V ±0.5 V DC	
Input Current:	50 mA max.	
Current Output Shorted:	15 mA min. 100 mA max.	
Output:		
Symmetry:	Normal 40/60% 1.4V Level Tight 55/45% a 1.4 V Level	
Rise & Fall Times:	250 KHZ - 9 MHZ	5 ns MAX.
	9 - 20 MHZ	10 ns MAX.
	20 - 70 MHZ	8 ns MAX.
Logic "0" Level:	+0.4 Volts Sink to 16mA (250 KHZ to 32. MHZ) +0.5 Volts Sink to 20mA (32 MHZ to 70 MHZ)	
Logic "1" Level:	+2.4 Volts Min. Source 0.4 mA	
Output Load:	1 to 10 TTL Loads	

## Output Waveform



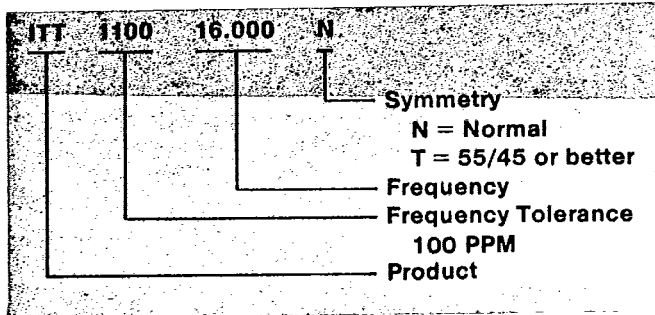
## Dimensions



**Standard Product Lines**

ITT 1000	±.10%	1000 PPM
ITT 1100	±.01%	100 PPM
ITT 1500	±.05%	500 PPM
ITT 1050	±.005%	50 PPM
ITT 1025	±.0025%	25 PPM

**How To Order**



**Standard Frequencies**

1.000 MHZ	10.000 MHZ
1.8432 MHZ	12.000 MHZ
2.000 MHZ	16.000 MHZ
2.4576 MHZ	18.4320 MHZ
4.000 MHZ	19.6608 MHZ
5.000 MHZ	20.000 MHZ
5.0688 MHZ	22.1184 MHZ
6.000 MHZ	24.000 MHZ
6.144 MHZ	32.000 MHZ
8.000 MHZ	40.000 MHZ

*ITT Components produces the finest quality products available to the marketplace; however, these products are intended to be used in accordance with the specifications described in this catalog. Any use or application that deviates from the stated operating specifications is not recommended and may be unsafe.*

*A limited warranty applies to ITT Components products. Except for obligations specifically assumed by ITT Components under warranty, ITT Components will not be liable for any loss, damage, cost of repairs, incidental or consequential damages of any kind, whether or not based upon expressed or implied warranty, contract, negligence, or strict liability arising in connection with the design, manufacture, sale, use, or repair of the products.*

**Please direct inquiries within the U.S.A. to:**

**ITT Components**  
 A Division of ITT Corporation  
 1201 E. McFadden Ave.  
 Santa Ana, California 92705  
 Phone: (714) 836-0351  
 TWX: 910-595-1744, Telex 68-1389

**Please direct inquiries within Canada to:**

**ITT Components**  
 A Division of ITT Industries of Canada Ltd.  
 4001 Chesswood Drive  
 Downsview, Ontario M3J 2R8  
 Phone: (416) 630-7971  
 Telex: 06-22703