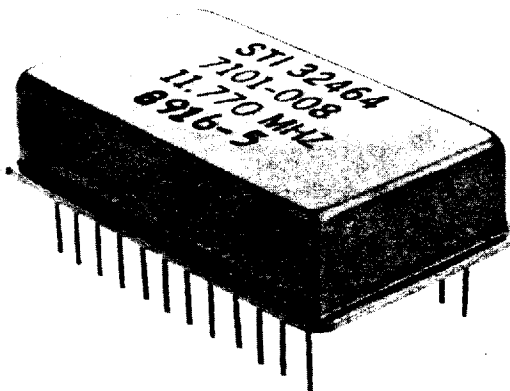


P/P TCVCXOs

24 PIN DIP TEMPERATURE COMPENSATED CRYSTAL OSCILLATORS

SERIES 7101



FEATURES:

- Low power consumption
- HCMOS standard, TTL and Sine wave available
- External voltage frequency adjust
- ± 1.0 ppm -20°C to $+70^{\circ}\text{C}$ typical
- Hermetically sealed
- Screening to MIL-O-55310 available

DESCRIPTION AND APPLICATIONS:

Series 7100 low profile oscillators are produced with thick film hybrid circuits and integrally mounted crystals in hermetically sealed, 24 pin DIP packages. This proven design provides a mechanically rugged package for high reliability applications in military, aerospace, and Hi-Rel commercial applications. Optimum accuracy, stability, and low aging are achieved with hermetic sealing, external trimming, and thermistor/varactor computer optimized compensation.

SPECIFICATIONS:

FREQUENCY RANGE:	1.0 kHz to 70.0 MHz	
OUTPUT:	TTL or HCMOS	Standard
	CMOS, ECL, Sine wave	Optional
LOAD:	5 TTL or 10 HCMOS	
SYMMETRY:	$\pm 10\%$	
INPUT:	$+12.0$ & $+5.0\text{Vdc}$	
AGING:	<16.0 MHz 1.0 ppm/year >16.0 MHz 2.0 ppm/year	
TRIM:	By External 50K pot or Voltage Trimmable	
SUPPLY POWER:	100 mW	Typical
VIBRATION:	MIL STD 202 METHOD 204 COND A	
SHOCK:	MIL STD 202 METHOD 213 COND C	
SEAL:	Hermetic	
OPTIONS:	Contact factory for specifications/availability for your unique requirements.	

STANDARD PIN CONNECTIONS:

1 = TRIM	12 = GND
2 = Vref (Internal)	13 = OUT
10 = $+5.0$ Vdc	24 = $+12.0$ Vdc

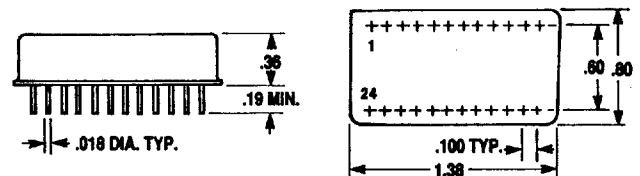
ACCURACY AND STABILITY OPTIONS:

0 to $+50^{\circ}\text{C}$	± 0.5 ppm
-20 to $+70^{\circ}\text{C}$	± 1.0 ppm
-40 to $+85^{\circ}\text{C}$	± 2.0 ppm
-55 to $+105^{\circ}\text{C}$	± 5.0 ppm

Depending on frequency tighter stabilities may be available. Less demanding tolerances can be specified for cost savings.

SPECIAL MODEL NUMBER DESIGNATION:

For specific applications a three digit dash number (suffix) is added to the Series number to provide a complete model number designation. This is assigned for convenience in ordering and is maintained as a unique cross reference designation to a specific customer part or specification number.



Specifications subject to change without notice.