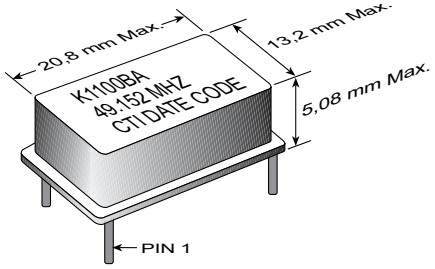
K1100BA, K1150BA, K1125BA, K1110BA Series

14 pin DIP, 5.0 Volt, Clock Oscillator

THIS PRODUCT IS NOT RECOMMENDED FOR NEW DESIGNS.
PLEASE REFER TO THE MHO+ PRODUCT SERIES.

- 4-pin Package, Compatible with 14-pin DIL
- 1.0MHz to 70MHz Frequency Range
- HCMOS Circuit, TTL/CMOS Compatible
  Tight Symmetry (45/55%) Available
- Tri-State Option Available
- ±100ppm Stability Standard
  Tighter Stabilities Available
  ±10ppm Stability:- K1110BA
  ±25ppm Stability:- K1125BA
  ±50ppm Stability:- K1150BA



ELECTRICAL SPECIFICATIONS

MODEL	K1100BA	K1150BA	K1125BA	K1110BA
Frequency Range (MHz)	1.0 to 70			
Frequency Stability (ppm)				
Overall	Inclusive of calibration, temperature, voltage, load, shock,vibration, aging			Rating Over Temperature Only
0°C to 70°C	±100	±50	±25	±10
-40°C to 85°C	±150	±100	NA	N/A
Temperature Range (°C)				
Operating	-40°C to +85°C			
Storage	-55°C to +125°C			
Supply Voltage (V)	+5.0 ±10%			
Supply Current (mA)				
<20MHz	15			
20 - 70 MHz	50			
Output TTL				
Symmetry	40/60% @ 1.4V; 45/55% Optional			
T_R and T_F (ns)	≤20MHz =8; > 20MHz = 6			
Fanout (TTL)	10			
Output CMOS				
Symmetry	40/60 @ $0.5V_{CC}$			
T_R and T_F (ns)	≤20MHz =10; > 20MHz = 8			
Start up Time (ms)	<10			

PART NUMBERING GUIDE

K11XXBACXXX-R - Specify Frequency

- "-R" = RoHS Compliant
  "Blank" = Non-RoHS Compliant
- "Blank" = 0°C to 70°C Operating Temperature
  "M" = -40°C to 85°C Operating Temperature
- "Blank" = Fixed Frequency
  "E" = Tri-State
- "Blank" = 40/60% Symmetry
  "S" = 45/55% Symmetry
- "C" = CMOS Output
- Model Selection: See Table Above

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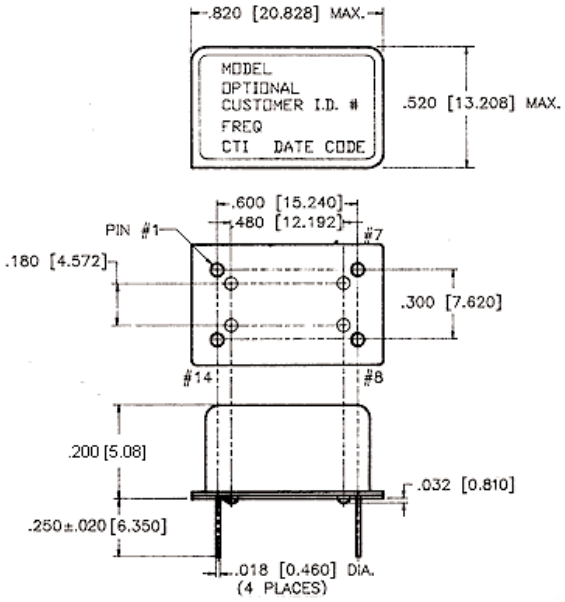
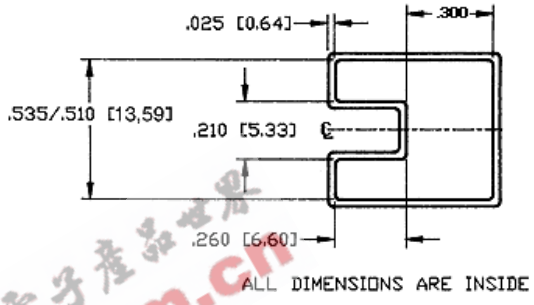
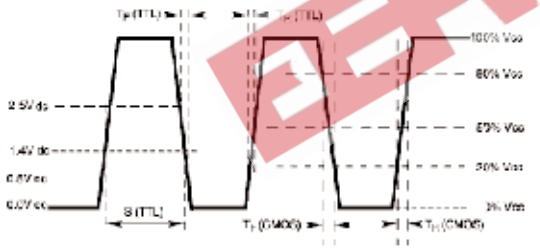


PIN	FUNCTION
1	N/C / Tri-State
2	Ground
3	Output
4	+ V_{CC}

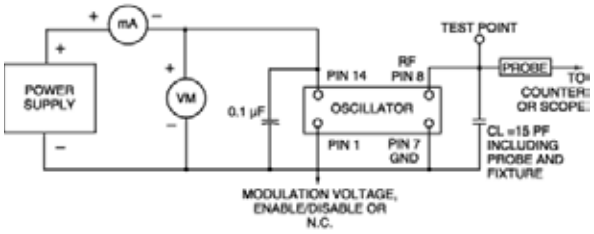
SHIPPING TUBE CROSS SECTION



OUTPUT WAVEFORM



TEST CIRCUIT DIAGRAM



MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS

TEST METHODS	REFERENCE PROCEDURES	DESCRIPTION
Temperature Cycle	MIL-STD-833, Mtd 1010, Cond. B	-55°C to +125°C; Air-to-Air; 100 cycles; 10 min. dwell
Mechanical Shock	MIL-STD-883, Mtd 2002, Cond. B	1500 g's
Vibration	MIL-STD 883, Mtd 2007, Cond. B	20-2000 Hz; 0.06 inch; 15g's; 3 planes
Humidity Steady State	MIL-STD-202, Mtd 103	40°C; 90%-95% R.H.; 56 days
Thermal Shock	MIL-STD-883, Mtd 1011.7 Cond. B	100°C to 0°C; Water-to-Water; 15 cycles
Electrostatic Discharge	MIL-STD-883, Mtd 3015 Class II	2 KV to 4 KV Threshold
Solderability	MIL-STD-883, Mtd 2022.2	Solder dip; Meniscograph Criteria
Hermeticity	MIL-STD-883, Mtd 1014.8, Cond. A1	Mass spectro. 2 x 10-8 atmos. CC/sec He
Resistance to Soldering	MIL-STD-202, Mtd 210D, Cond. J	235°C; 30 seconds
Lead Integrity	MIL-STD-883, Mtd 2004.5, Cond. A, B1	Lead tension & bend stress
Marking Permanence	MIL-STD-883, Mtd 2015.8	Resistance to solvents
Life Test	MIL-STD-883, Mtd 1005.6	125°C, powered, 1000 hours minimum