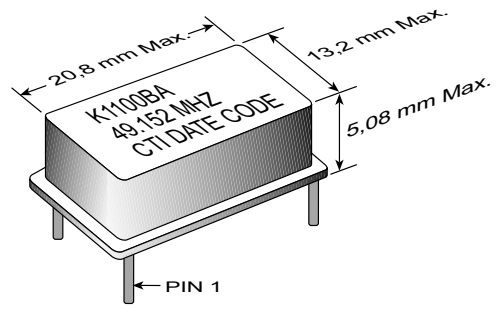


- 4-pin Package, Compatible with 14-pin DIL
- 1.0MHz to 70MHz Frequency Range
- HCMOS Circuit, TTL/CMOS Compatible  
Tight Symmetry (45/55%) Available
- Tri-State Option Available
- ±100ppm Stability Standard  
Tighter Stabilities Available  
±10ppm Stability:- K1110BA  
±25ppm Stability:- K1125BA  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

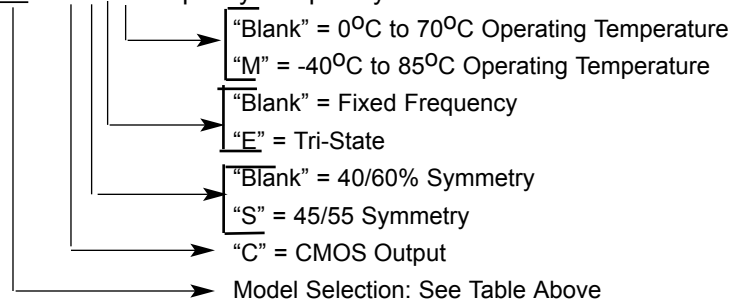


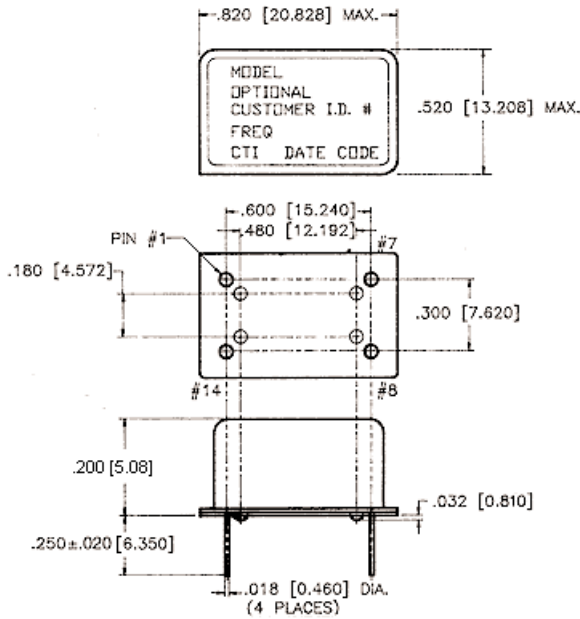
### ELECTRICAL SPECIFICATIONS

MODEL	K1100BA	K1150BA	K1125BA	K1110BA
<b>Frequency Range (MHz)</b>	1.0 to 70			
<b>Frequency Stability (ppm)</b>				
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
<b>Temperature Range (°C)</b>				
Operating	-40°C to +85°C			
Storage	-55°C to +125°C			
<b>Supply Voltage (V)</b>	+5.0 ±10%			
<b>Supply Current (mA)</b>				
<20MHz	15			
20 - 70 MHz	50			
<b>Output TTL</b>				
Symmetry	40/60% @ 1.4V; 45/55% Optional			
T <sub>R</sub> and T <sub>F</sub> (ns)	≤20MHz = 8; > 20MHz = 6			
Fanout (TTL)	10			
<b>Output CMOS</b>				
Symmetry	40/60 @ 0.5V <sub>CC</sub>			
T <sub>R</sub> and T <sub>F</sub> (ns)	≤20MHz = 10; > 20MHz = 8			
<b>Start up Time (ms)</b>	<10			

### PART NUMBERING GUIDE

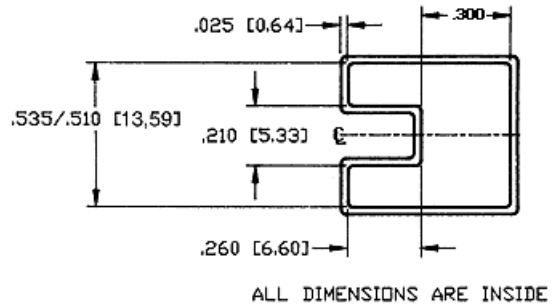
**K11XXBACXXX** - Specify Frequency



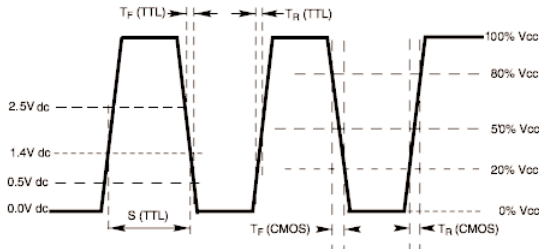


PIN	FUNCTION
1	N/C / Tri-State
2	Ground
3	Output
4	+V <sub>CC</sub>

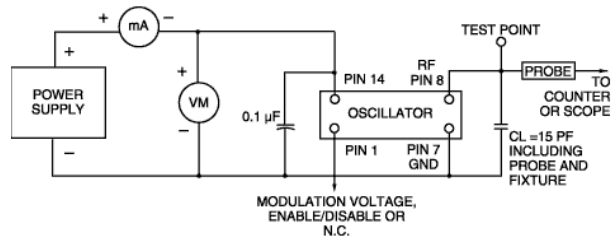
### SHIPPING TUBE CROSS SECTION



### 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 <sup>-8</sup> 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

This datasheet has been downloaded from:

[www.DatasheetCatalog.com](http://www.DatasheetCatalog.com)

Datasheets for electronic components.



LittleDiode supplies new, hard to find or obsolete electronic components and semiconductors all over the world.

With over two million different components listed you are sure to find the part you need.

Feel free to visit us today at our online store:

[LittleDiode.com](http://LittleDiode.com)

Looking forward to providing you with the best possible service.