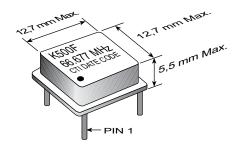
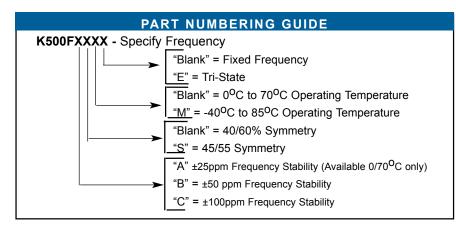


THIS PRODUCT IS NOT RECOMMENDED FOR NEW DESIGNS. PLEASE REFER TO THE MH PRODUCT SERIES.

- 4-pin Package, Compatible with 8-pin DIL
- 1.5MHz to 100MHz Frequency Range
- TTL/CMOS Compatible Tight Symmetry (45/55%) Available
- Tri-State Option Available
- ±100ppm Stability Standard K1100FC Tighter Stabilities Available
 ±25ppm Stability:- K1100FA
 ±50ppm Stability:- K1100FB
- Case Ground for EMI Protection



	ELECTRICAL SPECIFICATIONS			
MODEL	K500FA	K500FB	K500FC	
Frequency Range (MHz)	1.5 to 125			
Frequency Stability (ppm)				
Overall	Inclusive of calibration, temperature, voltage, load, shock, vibration, aging			
0°C to 70°C	±25	±50	±100	
-40°C to 85°C	N/A	±50	±100	
Temperature Range (°C)				
Operating	-40°C to +85°C			
Storage	-55°C to +125°C			
Supply Voltage (V)	+5.0 ±5%			
Supply Current (mA)		<30		
Output TTL/CMOS				
"0" Level (V _{OL})	0.9 V _{CC}			
"1" Level (V _{OH})	0.1 V _{CC}			
Load	Up to 80MHz 50pF; >80MHz 30pF			
T _R & T _F (ns)	<10			
Symmetry (%)	40/60			
Jitter (Typical)	10ps RMS @ 90MHz			
Start up Time (ms)	<10			

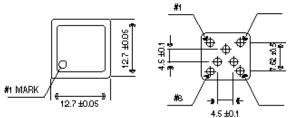


MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.

Please see www.mtronpti.com for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.

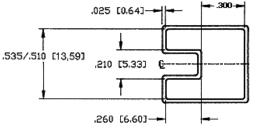




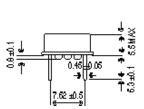


PIN	FUNCTION	
1	N/C / Tri-State	
2	Ground	
3	Output	
4	+ V _{CC}	

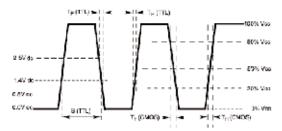
SHIPPING TUBE CROSS SECTION



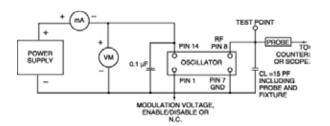
ALL DIMENSIONS ARE INSIDE



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

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