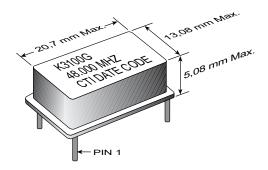
14 pin DIP, 5.0 Volt, Clock Oscillator

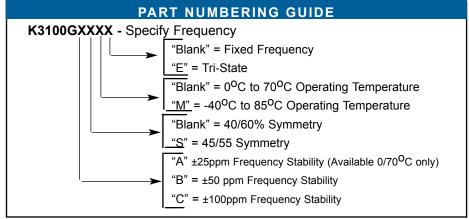


THIS PRODUCT IS NOT RECOMMENDED FOR NEW DESIGNS. PLEASE REFER TO THE MHO3 PRODUCT SERIES.

- TTL/CMOS Compatible Tight Symmetry (45/55%) Available
- Tri-State Option Available
- ±100ppm Stability Standard K3100GC Tighter Stabilities Available
 ±25ppm Stability:- K3100GA
 ±50ppm Stability:- K3100GB
- Case Ground for EMI Protection



	ELECTRICAL SPECIFICATIONS			
MODEL	K3100GA	K3100GB	K3100GC	
Frequency Range (MHz)	1.0 to 125			
Frequency Stability (ppm)				
Overall	Inclusive of calibration,	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)	+3.3 ±5%			
Supply Current (mA)	<30			
Output 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 @ 100MHz			
Start up Time (ms)		<10		

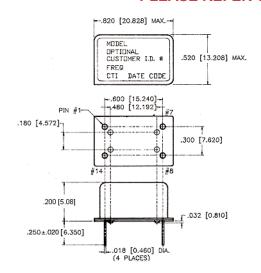


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Please see www.mtronpti.com for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.

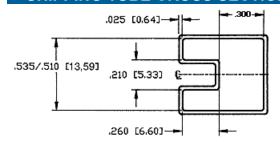


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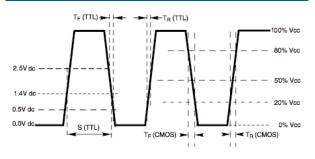
PIN	FUNCTION
1	N/C / Tri-State
7	Ground
8	Output
14	+ V _{CC}

SHIPPING TUBE CROSS SECTION

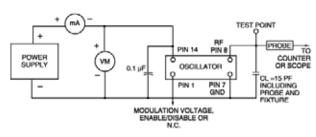


ALL DIMENSIONS ARE INSIDE

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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