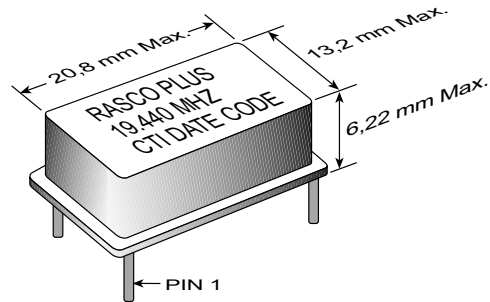


- 4-pin Package, Compatible with 14-pin DIL
- 1.25MHz to 20MHz Frequency Range
- TTL/CMOS Compatible
- Tight Symmetry (45/55%) Available
- Tri-State Option Available
- ±100ppm Stability Standard
- Tighter Stabilities Available
- ±50ppm Stability:- RASCO PLUS5
- Case Ground for EMI Protection



Not Recommended for New Designs. Refer to K1100F Series as an Alternative.

ELECTRICAL SPECIFICATIONS

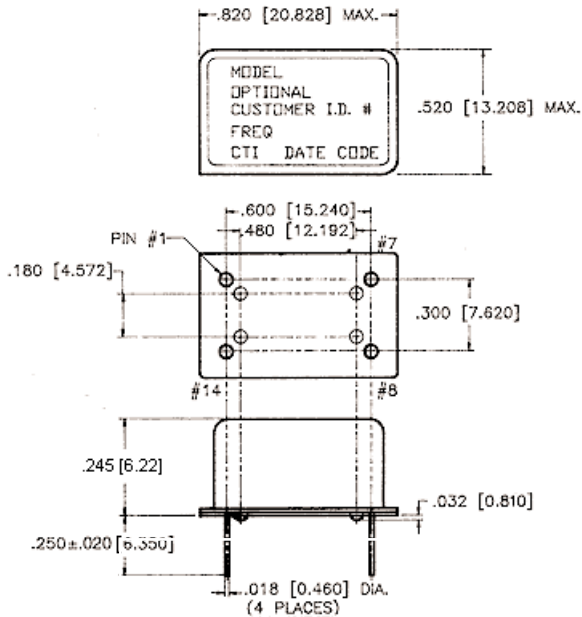
| MODEL | RASCO PLUS |
|--------------------------------------|--|
| Frequency Range (MHz) | 1.25 to 20 |
| Frequency Stability (ppm) | |
| Overall | Inclusive of calibration, temperature, voltage, load, shock,vibration, aging |
| 0°C to 70°C | ±50, ±100 |
| -40°C to 85°C | ±150 |
| Temperature Range (°C) | |
| Operating | -40°C to +85°C |
| Storage | -55°C to +125°C |
| Supply Voltage (V _{CC}) | 5.0 ±1% |
| Supply Current (mA) | <20 |
| Output TTL/CMOS | |
| “0” Level (V _{OL}) | 0.9 V _{CC} |
| “1” Level (V _{OH}) | 0.1 V _{CC} |
| Load | 50pF/10TTL Gates |
| T _R & T _F (ns) | <5 |
| Symmetry (%) | 40/60 |
| Jitter (Typical) | 5ps RMS @ 20MHz |
| Start up Time (ms) | <5 |

OBSOLETE

PART NUMBERING GUIDE

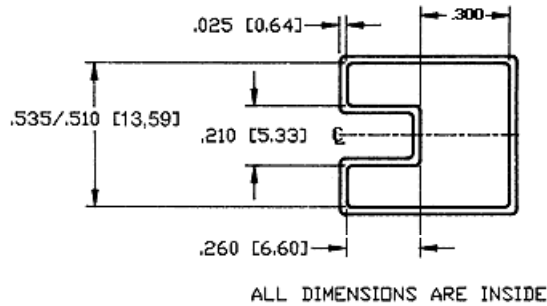
RASCO PLUS XXXX- Specify Frequency

- “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
- “Blank” = ±100ppm Frequency Stability
- “5” = ±50 ppm Frequency Stability



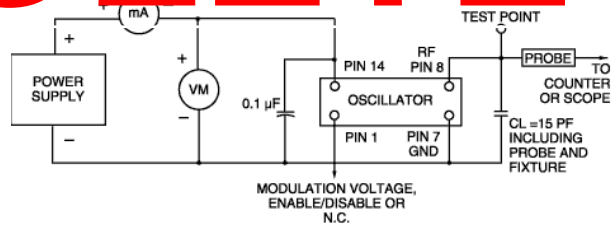
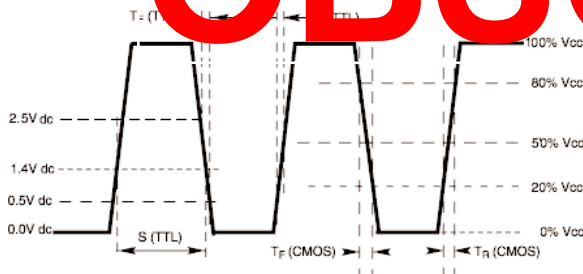
| PIN | FUNCTION |
|-----|------------------|
| 1 | N/C / Tri-State |
| 2 | Ground |
| 3 | Output |
| 4 | +V _{CC} |

SHIPPING TUBE CROSS SECTION



OUTPUT WAVEFORM TEST CIRCUIT DIAGRAM

OBSOLETE



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 |