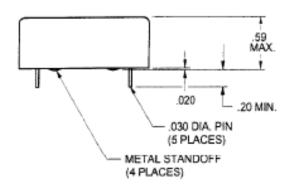
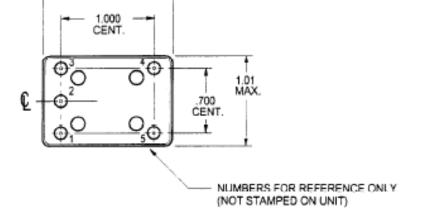


1.41 MAX. -





PIN CONNECTIONS			
PIN	FUNCTION		
1	VCO INPUT		
(See Note 1)	NOT CONNECTED		
2 (See Note 1)	REFERENCE VOLTAGE		
	NOT CONNECTED		
3	+VDC		
4	4 R. F. OUTPUT		
5	0 VOLTS & CASE		

Note 1. If the specification does not specify parameters for either PIN1 or PIN2 then that respective PIN is NOT internally CONNECTED.

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    OUTPUT

                                            10.000 MHz
    1.1. Frequency
1.2. Waveform
                                            Sine wave
                                            +8 ±2 dBm
     1.3. Level
     1.4. Load
1.5. Harmonics
                                            50 Ω
                                            < -30 dBc
                                            < -60 dBc
     1.6. Spurious

    FREQUENCY STABILITY

                                             < ±2x10-8 from 0°C to +70°C
     2.1. Ambient
                                             (referenced to +25°C)
      2.2. Aging
                                            < ±1x10<sup>-9</sup>/day
          a. At time of shipment

 After indefinite storage

                                             < ±1x10<sup>-9</sup> after 30 days
              i. Daily
                                             < \pm 1 \times 10^{-7}
               ii. Yearly
               iii. 10 years
                                             < ±3.5x10<sup>-7</sup>
                                             < ±5x10<sup>-9</sup>/±5% change
      2.3. Voltage
2.4. Load
                                             < ±5x10-7/±5% change
< ±2x10-8 in 5 minutes @ +25°C
      2.5. Warm-up
                                             (referenced to 4 hours)
      2.6. Phase noise
          a. @ 10 Hz
                                             < -115 dBc
                                             < -135 dBc
          b. @ 100 Hz
                                             < -145 dBc
          c. @ 1 kHz
      2.7. Acceleration sensitivity < TBDx10<sup>-9</sup>/g per axis

    BLECTRICAL FREQUENCY ADJUSTMENT (PIN = "VCO INPUT")

                                              > ±4x10<sup>-7</sup>
      3.1. Range
                                              < ±9x10<sup>-7</sup> (At time of shipment)
                                              (Referenced to nominal frequency)
                                              0 VDC to Vref (+8 VDC) or
      3.2. Control
                                              a 20 k\Omega potentiometer connected
                                              between the "REFERENCE VOLTAGE" pin
                                              and "0 VOLTS & CASE" pin with wiper connected to "VCO INPUT" pin.
                                             Positive
      3.3. Slope
                                             +4 VDC ±0.8 VDC
      3.4. Center
                                              (control voltage at which nominal
                                             frequency occurs at time of shipment)
                                             < ±10%
      3.5. Linearity
      3.6. Input impedance
                                             > 50 kΩ
```

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4. INPUT POWER (PIN = "+VDC") +13.75 ±2.25 VDC 4.1. Voltage < 350 mA @ turn on 4.2. Current < 1.3 Watts @ +25°C 4.3. Steady state REFERENCE VOLTAGE (PIN = "REFERENCE VOLTAGE"), an output +8 VDC ±5% 5.1. Voltage > 8 kΩ 5.2. Load < ±0.015 VDC 5.3. Temperature stability (Over temperature range in 2.1.) ENVIRONMENTAL MIL-STD-202F, Method 103B, Test 6.1. Humidity Condition A (95% R.H. @ +40°C, non-condensing, 96 hours) -40°C to +85°C 6.2. Storage temperature MIL-STD-202F Method 201A. (0.06" 6.3. Vibration (non-operating) Total p-p, 10 to 55 Hz) MIL-STD-202F, Method 213B, Test 6.4. Shock (non-operating) Condition J. (30 g, 11 ms half-sine) MECHANICAL OCXO 131 series 7.1. Applicable series OCXO 131-55 7.2. Model number 7.3. Outline drawing 125-535

ISOTEMP RESEARCH INC.	CODE ID.	PART NO.
CHARLOTTESVILLE, VA. USA zzso3	31785	OCXO 131-55

TEL 804-295-3101

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