TRIM ACCESS

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NOS REF. ONLY.
NOT STAMPED ON UNIT.

PIN FUNCTION
1 B+ OSC.
2 R.F. OUTPUT
3 OVOC
4 B+ OVEN
5 FINE TRIM-HIGH
6 FINE TRIM-LOW

NOTE: PIN 3 CONNECTS TO CASE THRU .014".
1. GENERAL
This specification defines the operating characteristics of an ovenized crystal oscillator. Long term stability is assured through use of premium components.

2. OUTPUT
2.1 Frequency 10.000 MHz
2.2 Waveform Sine wave
2.3 Levels 1 Vpp ±15%
2.4 Load 50 Ω ±5%
2.5 Harmonics < 30 dBC

3. STABILITY
3.1 Ambient < ±5x10^-9 -30°C to +60°C (referenced to +25°C)
3.2 Aging < ±7x10^-10 /day averaged over 3 days
3.3 Voltage < 2x10^-10 /2% change on any input voltage
3.4 Short term < 1x10^-10 rms over 10 consecutive 10 second counts
3.5 Load < 5x10^-10 /20%
3.6 Warm-up < ±5x10^-8 in 30 minutes @ -20°C referenced to 2 hours

4. FREQUENCY ADJUSTMENT (MECHANICAL)
4.1 Range > ±1 PPM
4.2 Resolution < ±3x10^-9
4.3 Control Multi-turn precision trimmer

5. FREQUENCY ADJUSTMENT (ELECTRICAL)
5.1 Range > 4x10^-8
5.2 Control External 10 kΩ variable resistor between pins 5 & 6
5.3 Slope Frequency is high when pins 5 & 6 are shorted

6. INPUT VOLTAGE (OSC)
6.1 Voltage +10 VDC ±3%
6.2 Regulation ±1%
6.3 Current < 35 mA
7. INPUT VOLTAGE (OVEN)
   7.1 Voltage +13.5 VDC ±10%
   7.2 Regulation ±2%
   7.3 Power < 8.8 watts @ 13.5 VDC

8. MECHANICAL
   8.1 Applicable series OCXO 118 series
   8.2 Model number OCXO 118-10
   8.3 Outline drawing 125-222