INPUT
Frequency
  10 MHz
Level
  +7 dBm ±6 dB into 50 ohms
OUTPUT
Frequency
  250 MHz
Level
  +13 dBm ±2 dB into 50 ohms
STABILITY
Aging (free-running)
  1×10^{-6} first year
  after 30 days operating, typical
  5×10^{-7} second year, typical
  3×10^{-7} per year thereafter, typical
Phase Noise L(f), typical, (free-running)
  100 Hz   -116 dBc/Hz
  1 KHz   -145 dBc/Hz
  10 KHz   -167 dBc/Hz
  100 KHz   -168 dBc/Hz
Temperature Stability
  $\pm 5 \times 10^{-7}$ free-running from 0 to +50°C
  (Ref. +25°C)
Harmonics
  -25 dBc
Sub-Harmonics
  -70 dBc
PLL Divider Products
  -70 dBc
Spurious
  -80 dBc, excluding power
  supply line related spurs
Phase Lock Alarm
  TTL
  Locked: +3.5 VDC to +5.2 VDC (Hi)
  Out-of-Lock: +0.8 VDC max (Lo)
Phase Lock Voltage Monitor
  Voltage monitor pin supplied
MECHANICAL
Dimensions
  3.45 x 4 x 1"

Connectors
  RF Input/Output: SMA(f)
  Power, Monitoring: Feed Thru Terminals
  GND: Ground Turret
Packaging
  Nickel-plated machined
  aluminum housing – J1P
Mounting
  Threaded inserts on base,
  6 places, #2-56
POWER REQUIREMENTS
Warm-Up Power
  ≤ 9 Watts for 5 minutes
Total Power
  ≤ 6 Watts at +25°C
Supply Voltage
  +15 VDC ±5%
ADJUSTMENT
Loop BW
  Target Bandwidth: ≤ 10 Hz
  Type 2 Loop
CRYSTAL
Type
  125 MHz SC-cut (x2)
OTHER
Label
  Use conventional label with the
  following information:
  501-26848 (Current Rev.)
  250 MHz MXO-PLD
  +15 VDC
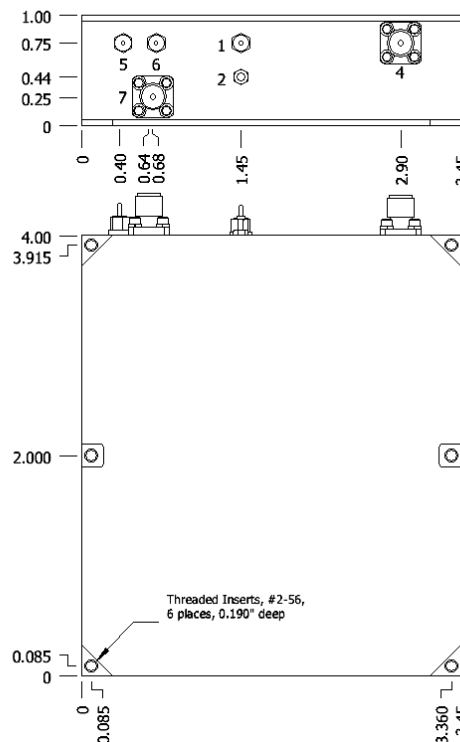 Serial # - Date Code
  (Mark connectors with function)
Test Data
  - Output Level
  - Phase Noise – free-running
  - Harmonics, Subs, Products, Spurious
  - Power – Warm-up and Total

J1P MXO Connections	
Connector	Function
1	Supply Voltage
2	Ground, Case
4	RF Output
5	Phase Lock Voltage
6	Phase Lock Alarm
7	External Reference Input

Threaded Inserts, #2-56,
6 places, 0.190" deep