

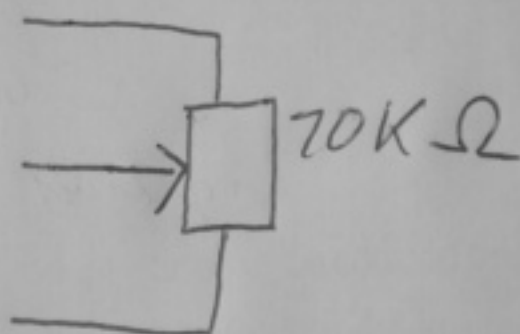
70 MHz: Connection, Adjustment

1 Not Connected

2 green

3 white

4 red



5 black — GND

6 orange — +72V

1 6 2009

10061 53219
41670
46951
48704

Temperature stability: $\pm 1 \times 10^{-8}$ over -40°C to $+75^{\circ}\text{C}$ referenced to $+25^{\circ}\text{C}$

Aging: 5×10^{-10} /day, 1×10^{-7} /year

Frequency vs. supply: 2×10^{-9} /percent

Short-term:
(Allan Variance) 1×10^{-11} /second

Warm-up @ 25°C :
(relative to 2 hrs. after
turn-on following 24 hrs. off) $\pm 5 \times 10^{-8}$ in 5 minutes
 $\pm 1 \times 10^{-8}$ in 10 minutes

Output: ≥ 0.5 Vrms into 50Ω (+7 dBm)

Harmonics/subs: -20 dBc

Spurious: -100 dBc

ssb Noise/Hz:
(typical, degrades 6 dB
per octave above 12 MHz) -135 dBc at 100 Hz
-150 dBc at 1 kHz
-155 dBc at 10 kHz

Supply: +12 Vdc $\pm 5\%$

Input power: $< 7\text{W}$ at turn-on
 $< 3\text{W}$ stabilized at $+25^{\circ}\text{C}$

Frequency adjust: **718Y4153:** Electrical range for 10 years aging via external potentiometer.
(via external potentiometer) **718Y4153-1:** Mechanical tuning range for 10 years aging.

Size: $2" \times 2.5" \times 0.77"$ with $2" \times 3"$ plate on base

Configuration: **718Y4153:** SMA connector on $2" \times 0.77"$ side with wire harness out
 $2.5" \times 0.77"$ side, wire harness described by SSE Drawing.

718Y4153-1: Tuning access hole on $2.5"$ side with location per 711-113-006.

Marking: **718Y4153:** Include P/N 557-042475-003, S/N and D/C
718Y4153-1: Include P/N 557-042475-002, S/N and D/C

Frequency: 10 MHz MFG#: 141018445 (Active) P/N: 718Y4153
10 MHz 700-00358 (Inactive) 718Y4153-1
141018446 (Active)
700-00882 (Inactive)

FSCM 27802

Specification Control Drawing No.

718Y4153

Page 1

Revision

D

499 \$

OSCILLATOR TEST REPORT

OCXO

Serial Number: 1368
Model Number: 2900082-48
Xtal Number: 1134-4045
Customer: Lemus

Test Performed By: Mike Mohle
Date: 4-11-97
Q.C. Approval: _____
Date: _____

TEST CONDITIONS:

Osc. Supply Voltage: 12.0 VDC +/- 5.0 %
Oven Supply Voltage: 12 VDC +/- 5.0 %
EFC Voltage: VDC mV
External Load: 50 Ohms
Warm-up Time: 15 Minutes

TEST RESULTS:

Output Frequency: 10,000,000.00 +/- 0.10 Hz
Output Level: +7.0 min. dBm
Harmonics: -20 dBc
Subharmonics: dBc
Spurious: dBc
Osc. Current: mA
Turn-on Current: 800 mA
Idle Current: (@+25 Deg C) 300 mA
Electrical Adjust: (min.) (max.) ppm
Mechanical Adjust: +/- 1.5 (min.) (max.) ppm
Frequency Push: for a % Change
Frequency Pull: for a % Change
Warmup Stability: +/- 1.0e-8 within 10 Min.
Shock Start (Cold):
Shock Start (Hot):
Temperature Stability: (See Specification)
Phase Noise: (See Specification)
Aging: +/- 1.0e-9 Per Day

Pass	Fail	N/T	N/A
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-40° -> +70°C
Freq stabil ± 7 x 10⁻⁸

+7 dBm out

7 NC
gn2
wβ3 → 10KΩ
vβ4

1212011

PIEZO CRYSTAL COMPANY
CARLISLE, PA 17013

1) Pages 1 thru 4 are Piezo internal docs.
2) N/T=Not Tested and Guaranteed by design.

SIZE A	CODE IDENT. NO. 74306	DRAWING NUMBER SW5 GND 2900082-48 OM16 +72V
SCALE	Rev. D	SHEET 5 OF 5