

| REV | DATE     | REVISION RECORD        | DWN | AUTH |
|-----|----------|------------------------|-----|------|
| -   | 01-09-03 | Draft                  | KH  | BH   |
| A   | 08-07-06 | Warm-Up, Warm-Up Power | YR  | BH   |
|     |          |                        |     |      |
|     |          |                        |     |      |

**OUTPUT**

**Frequency**

5 MHz: 3 outputs  
 10 MHz: 3 outputs

**Level**

+13 ±2 dBm into 50 ohms

**STABILITY (Unlocked)**

**Aging**

5 x 10<sup>-10</sup> per day at time of shipment  
 without aging correction

**Warm-Up**

24 hours to 1 x 10<sup>-9</sup> of frequency after 48 hours

**Phase Noise L(f) in dBc/Hz**

|        | 5 MHz | 10 MHz |
|--------|-------|--------|
| 1 Hz   | -110  | -100   |
| 10 Hz  | -140  | -130   |
| 100 Hz | -165  | -160   |
| 300 Hz | -171  | -165   |
| 1 kHz  | -174  | -170   |
| 10 kHz | -174  | -174   |
| 20 kHz | -174  | -174   |

**Temperature Stability**

±2 x 10<sup>-9</sup>, 0° to +50°C

**Sub-Harmonics and Products of 5 MHz**

-40 dBc

**MECHANICAL**

**Dimensions**

17 x 13 x 3.5"

**Connectors**

Output: SMA

**POWER REQUIREMENTS**

**Warm-Up Power**

TBD

**Supply Voltage**

115 VAC 50/60 Hz

**ADJUSTMENT**

**Mechanical Tuning**

±1 x 10<sup>-6</sup>

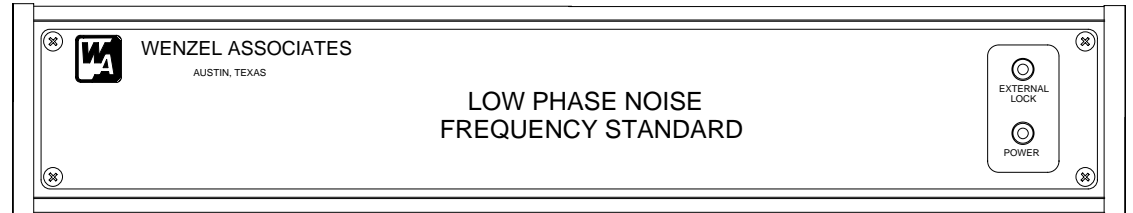
**OTHER**

**INPUT-External Reference**

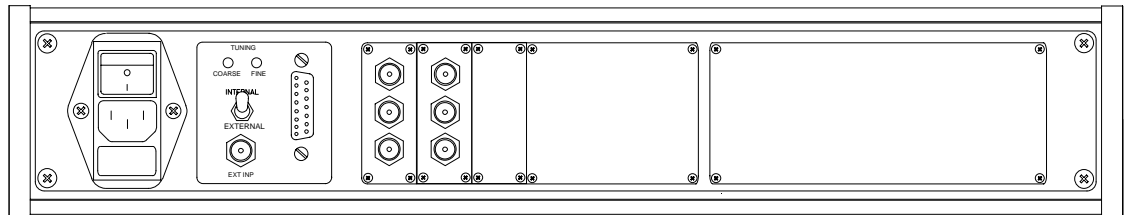
**Frequency**

5 or 10 MHz input, +1 to +15 dBm into 50 ohms,  
 SMA Connector  
 Auto selects when signal is present

Front Panel



Rear Panel



| PIN | Function         |
|-----|------------------|
| 1   | Phase lock alarm |
| 2   | N/C              |
| 3   | N/C              |
| 4   | EXT Ref detect   |
| 5   | INT Ref detect   |
| 6   | GND              |



**Wenzel Associates, Inc.**

Austin, Texas

Title:

**5 & 10 MHz Wizard IV Frequency Standard**

|                          |                  |                          |        |      |
|--------------------------|------------------|--------------------------|--------|------|
| P/N:<br><b>501-10302</b> | Rev:<br><b>A</b> | Date:<br><b>08-07-06</b> | Drawn: | Ref: |
|--------------------------|------------------|--------------------------|--------|------|

|  |                             |                              |                       |             |
|--|-----------------------------|------------------------------|-----------------------|-------------|
| Tolerances:<br>(except as noted)<br>Dimensions are in inches | 0.XX Dec:<br><b>±0.030"</b> | 0.XXX Dec:<br><b>±0.010"</b> | FSCM:<br><b>62821</b> | Page 1 of 1 |
|--|-----------------------------|------------------------------|-----------------------|-------------|