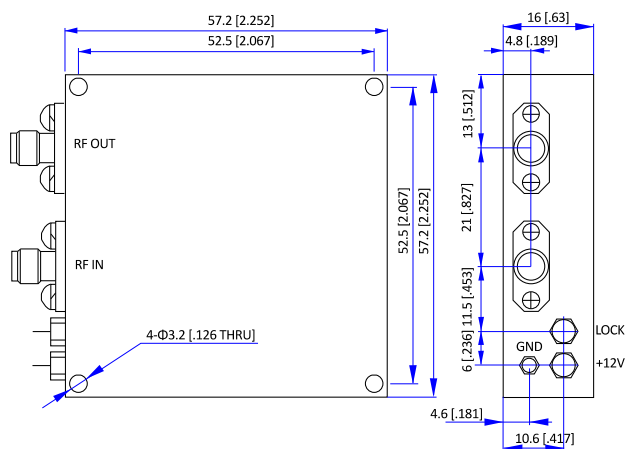


## FSPDRO-37400-100E

Frequency Sources, PLDRO, 37.4GHz, 100MHz External Reference

| Electrical Specifications    |                                          |                    |                                                |
|------------------------------|------------------------------------------|--------------------|------------------------------------------------|
| Output Frequency             | 37.4 GHz                                 | Output Phase Noise | -40 dBc/Hz Max.@10Hz                           |
| Output Power                 | +13 dBm Min.                             |                    | -70 dBc/Hz Max.@100Hz                          |
| Input Power                  | 5 ± 3 dBm                                |                    | -100 dBc/Hz Max.@1kHz                          |
| Reference Frequency          | 100 MHz                                  |                    | -105 dBc/Hz Max.@10kHz                         |
| Reference Mode               | External                                 |                    | -105 dBc/Hz Max.@100kHz                        |
| Reference Phase Noise        | -100 dBc/Hz Max.@10Hz                    |                    | -128 dBc/Hz Max.@1MHz                          |
|                              | -130 dBc/Hz Max.@100Hz                   | Spurious           | 70 dBc Min.<br>@ ± (10MHz to 2GHz)             |
|                              | -160 dBc/Hz Max.@1kHz                    | Harmonic           | 50 dBc Min. (@9.35GHz,<br>@18.7GHz, @28.05GHz) |
|                              | -168 dBc/Hz Max.@10kHz                   | Supply Voltage     | +12 ± 0.5 V DC                                 |
|                              | -170 dBc/Hz Max.@100kHz                  | Supply Current     | 500 mA Max.                                    |
|                              |                                          | Lock indicator     | TTL; H: Locked, L: Unlocked                    |
| Environmental Specifications |                                          |                    |                                                |
| Operating Temperature        | -40°C~+75°C                              |                    |                                                |
| Storage Temperature          | -55°C~+85°C                              |                    |                                                |
| Mechanical Specifications    |                                          |                    |                                                |
| RF Connectors                | Input: SMA-Female; Output: 2.92mm-Female |                    |                                                |
| DC/Control Interface         | Feedthrough Pins                         |                    |                                                |
| Dimensions                   | 57.2×57.2×16 mm [2.25×2.25×0.63 in]      |                    |                                                |

### Outline Drawing (Dimension in mm [in], Tolerance: ±0.3mm [±0.01 in])



### Ordering Information:

Model: **FSPDRO-37400-100E**