

## FPDO-E-10-4.16

External Reference, 10MHz, 4.16GHz

### Features:

- \* High Frequency Stability
- \* Ultra Low Phase Noise

### Applications:

- \* Wireless
- \* Transceiver
- \* Laboratory Test
- \* Radar

### Electrical

|                        |                         |
|------------------------|-------------------------|
| Output Frequency:      | 4.16GHz                 |
| Output Power:          | 15dBm min.              |
| Reference Input Power: | 0~+5dBm                 |
| Output Spurious:       | -70dBc max.             |
| Output Harmonics:      | -20dBc max.             |
| External Reference:    | 10MHz                   |
|                        | -120dBc/Hz max. @10Hz   |
|                        | -140dBc/Hz max. @100Hz  |
|                        | -155dBc/Hz max. @1KHz   |
|                        | -165dBc/Hz max. @10KHz  |
|                        | -165dBc/Hz max. @100KHz |
| Output Phase Noise:    | -80dBc/Hz max. @100Hz   |
|                        | -115dBc/Hz max. @1KHz   |
|                        | -120dBc/Hz max. @10KHz  |
|                        | -120dBc/Hz max. @100KHz |
|                        | -135dBc/Hz max. @1MHz   |
| Voltage:               | +12±0.5V DC             |
| Current:               | 800mA max. (first)      |
|                        | 650mA max. (stable)     |
| Lock Indicator (LI):   | TTL logic               |
|                        | High: locked            |
|                        | Low: unlocked           |

### Environmental

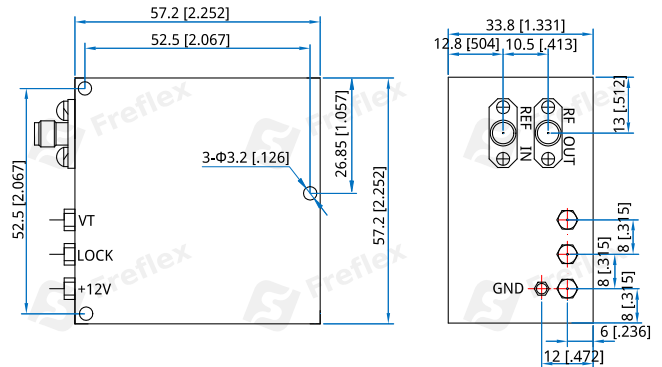
|                            |           |
|----------------------------|-----------|
| Operating Temperature:     | -40~+75°C |
| Non-operating Temperature: | -55~+85°C |

### Mechanical

|                         |                            |
|-------------------------|----------------------------|
| Size*1:                 | 57.2*57.2*33.8mm           |
|                         | 2.252*2.252*1.331in        |
| RF Connectors:          | SMA Female                 |
| Power Supply Interface: | Feed Through/Terminal Post |
| Mounting:               | 3-Φ3.2mm through-hole      |

[1] Exclude connectors.

### Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

### How To Order

**FPDO-E-10-4.16**

Customization is available upon request.