

## FPDO-E-100-8

External Reference, 100MHz, 8GHz

### Features:

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

### Applications:

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

### Electrical

|                      |                   |
|----------------------|-------------------|
| Output Frequency:    | 8GHz              |
| Output Power:        | +13~+15dBm        |
| Spurious:            | -70dBc max.       |
| Harmonic:            | -20dBc max.       |
| External Reference:  | 100MHz            |
|                      | -125dBc/Hz@100Hz  |
|                      | -155dBc/Hz@1KHz   |
|                      | -165dBc/Hz@10KHz  |
|                      | -165dBc/Hz@100KHz |
|                      | -165dBc/Hz@1MHz   |
| Input Power:         | 3~10dBm           |
| Phase Noise:         | -90dBc/Hz@100Hz   |
|                      | -113dBc/Hz@1KHz   |
|                      | -120dBc/Hz@10KHz  |
|                      | -120dBc/Hz@100KHz |
|                      | -140dBc/Hz@1MHz   |
| Voltage:             | +12V DC           |
| Current:             | 300mA max.        |
| Lock Indicator (LI): | TTL logic         |
|                      | High: locked      |
|                      | Low: unlocked     |

### Mechanical

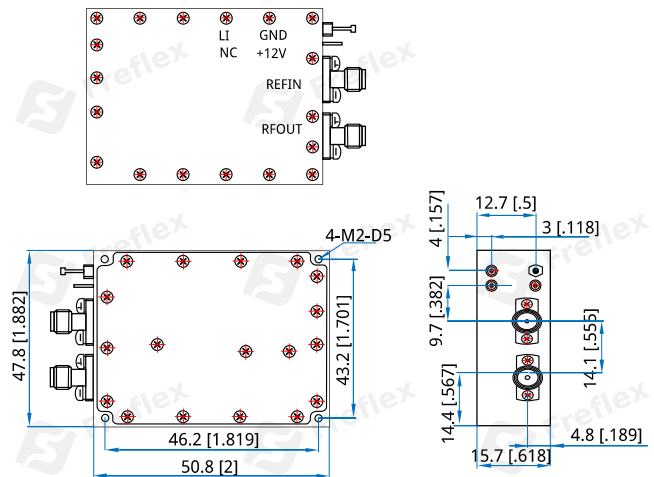
|                         |                            |
|-------------------------|----------------------------|
| Size*1:                 | 50.8*47.8*15.7mm           |
|                         | 2*1.882*0.618in            |
| RF Connectors:          | SMA Female                 |
| Power Supply Interface: | Feed Through/Terminal Post |
| Mounting:               | 4-M2, Depth 5mm            |

[1] Exclude connectors.

### Environmental

|                            |           |
|----------------------------|-----------|
| Operating Temperature:     | -40~+70°C |
| Non-operating Temperature: | -55~+85°C |

### Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

### How To Order

**FPDO-E-100-8**

Customization is available upon request.