

## QPDO-E-100-4-1

External Reference, 100MHz, 4GHz

### Features:

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

### Applications:

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

### Electrical

|                      |                   |
|----------------------|-------------------|
| Output Frequency:    | 4GHz              |
| Output Power:        | 9~11dBm           |
| Spurious:            | -80dBc min.       |
| Harmonic:            | -30dBc min.       |
| External Reference:  | 100MHz(-3~+3dBm)  |
|                      | -130dBc/Hz@100Hz  |
|                      | -160dBc/Hz@1KHz   |
|                      | -165dBc/Hz@10KHz  |
|                      | -168dBc/Hz@100KHz |
| Phase Noise:         | -88dBc/Hz@100Hz   |
|                      | -120dBc/Hz@1KHz   |
|                      | -124dBc/Hz@10KHz  |
|                      | -124dBc/Hz@100KHz |
|                      | -140dBc/Hz@1MHz   |
| Voltage:             | +12V DC           |
| Current:             | 250mA max.        |
| Lock Indicator (LI): | TTL logic         |
|                      | High: locked      |
|                      | Low: unlocked     |

### Mechanical

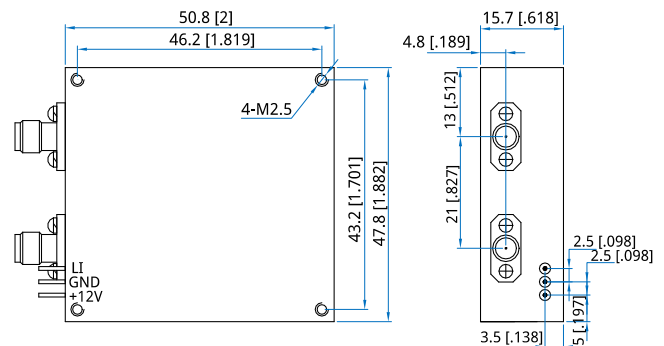
|                         |                            |
|-------------------------|----------------------------|
| Size*1:                 | 50.8*47.8*15.7mm           |
|                         | 2*1.882*0.618in            |
| RF Connectors:          | SMA Female                 |
| Power Supply Interface: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

[1] Exclude connectors.

### Environmental

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

### Outline Drawings



Unit: mm [in]

Tolerance:  $\pm 0.2\text{mm}$  [ $\pm 0.008\text{in}$ ]

### How To Order

**QPDO-E-100-4-1**

Customization is available upon request.