

## QPDO-I-100-7.4475

Internal Reference, 100MHz, 7.4475GHz

### Features:

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

### Applications:

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

### Electrical

|                      |                   |
|----------------------|-------------------|
| Output Frequency:    | 7.4475GHz         |
| Frequency Stability: | ±0.3ppm           |
| Output Power:        | 14dBm min         |
| Spurious:            | -70dBc max.       |
| Harmonic:            | -20dBc max.       |
| Internal Reference:  | 100MHz            |
|                      | -125dBc/Hz@100Hz  |
|                      | -155dBc/Hz@1KHz   |
|                      | -165dBc/Hz@10KHz  |
|                      | -165dBc/Hz@100KHz |
|                      | -165dBc/Hz@1MHz   |
| Phase Noise*1:       | P+20lg(N)+3dBc/Hz |
|                      | -115dBc/Hz@100KHz |
|                      | -133dBc/Hz@1MHz   |
| Voltage:             | +12V DC           |
| Current:             | 650mA max.        |
| Lock Indicator (LI): | TTL logic         |
|                      | High: locked      |
|                      | Low: unlocked     |

[1] The formula to calculate phase noise of the offset 100Hz, 1KHz and 10KHz, where P is the respective phase noise of the external reference, and N is the ratio of output frequency to reference.

### Mechanical

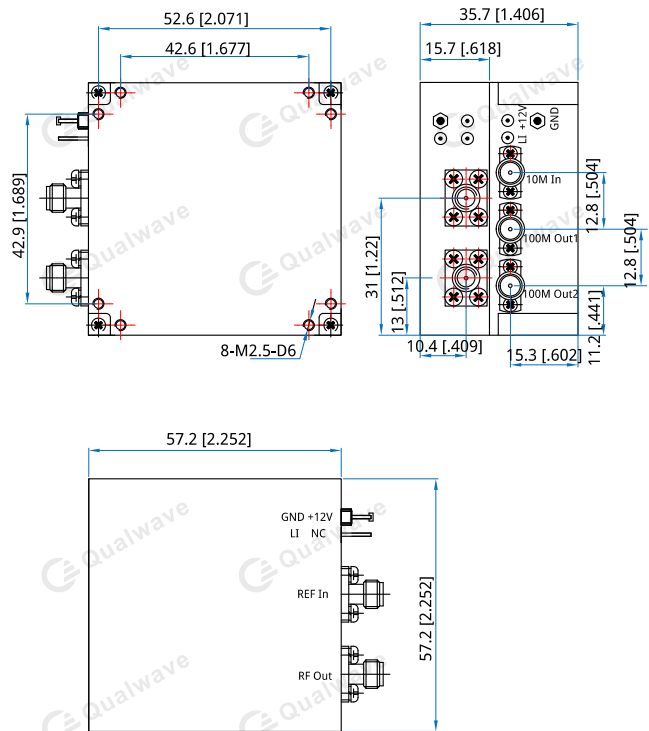
|                         |                            |
|-------------------------|----------------------------|
| Size*1:                 | 57.2*57.2*35.7mm           |
|                         | 2.252*2.252*1.406in        |
| RF Connectors:          | SMA Female                 |
| Power Supply Interface: | Feed Through/Terminal Post |
| Mounting:               | 8-M2.5, Depth 6mm          |

[1] Exclude connectors.

### Environmental

|                            |           |
|----------------------------|-----------|
| Operating Temperature:     | -40~+70°C |
| Non-operating Temperature: | -45~+85°C |

### Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

### How To Order

**QPDO-I-100-7.4475**

Customization is available upon request.