Qualwave

Phase-locked Dielectric Resonator Oscillator

QPDO-E-25-13.95

External Reference, 25MHz, 13.95GHz

Features:
* High Frequency Stability
* Ultra Low Phase Noise

Applications:
* Wireless
* Transceiver
* Laboratory Test
* Radar

Electrical

Output Frequency:	13.95GHz
Output Power:	+13~+15dBm
Input Power:	10±3dBm
Output VSWR:	3 max.
Output Spurious:	-76dBc max. @±(10MHz~2GHz)
Output Harmonics:	-20dBc max.
External Reference:	25MHz
	-110dBc/Hz max. @10Hz
	-137dBc/Hz max. @100Hz
	-156dBc/Hz max. @1KHz
	-165dBc/Hz max. @10KHz
	-168dBc/Hz max. @100KHz
Output Phase Noise*1:	-46dBc/Hz max. @10Hz
	-71dBc/Hz max. @100Hz
	-101dBc/Hz max. @1KHz
	-111dBc/Hz max. @10KHz
	-116dBc/Hz max. @100KHz
	-131dBc/Hz max. @1MHz
	-141dBc/Hz max. @10MHz min.
Voltage:	+12±0.5V DC
Current:	600mA max. (first)
	450mA max. (stable)
Lock Indicator (LI):	TTL logic
	High: locked
	Low: unlocked

[1] Phase noise between two specified frequency points shall not be higher than the piecewise straight line drawn between the two points on a dB vs. log frequency plot.
Phase noise shall be in compliance over the specified Operational Temperature at mounting plate.

Environmental

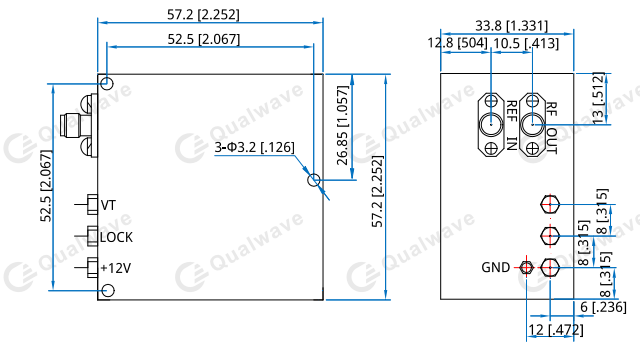
Operating Temperature:	-50~+75℃
Non-operating Temperature:	-55~+85℃

Mechanical

Size*2:	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

[2] Exclude connectors.

Outline Drawings



Unit: mm [in]
Tolerance: ±0.5mm [±0.02in]

How To Order

QPDO-E-25-13.95

Customization is available upon request.