

# Voltage Controlled Oscillator

# RS1440AM

Optimized Band 1438 to 1442 MHz

Rev. A

## Features

- Low phase noise
- Linear tuning characteristics
- Low pushing / Low pulling
- Aqueous washable

## Applications

- SATCOM
- Receiver
- Test Equipment
- Radar
- Point-to-Point
- Radio
- MMDS
- WiMax

## Electrical Characteristics



| Parameter                       | Units    | Min  | Typ  | Max  |
|---------------------------------|----------|------|------|------|
| Operating Frequency Range       | MHz      | 1438 |      | 1442 |
| Output Power                    | dBm      |      | 2.0  |      |
| Output Impedance                | $\Omega$ |      | 50   |      |
| Phase Noise @10kHz offset       | dBc/Hz   |      | -116 |      |
| @100kHz offset                  |          |      | -136 |      |
| Tuning Voltage (Vt)             | Vdc      | +1   |      | +4   |
| Tuning Voltage Sensitivity (Kv) | MHz/V    |      | 10   |      |
| 2nd Harmonic Suppression        | dBc      |      | -15  |      |
| Power Supply (Vcc) Voltage      | Vdc      |      | 5    |      |
| Current                         | mA       |      | 25   |      |
| Pushing Figure                  | MHz/V    |      | 0.2  |      |
| Pulling Figure                  | MHz      |      | 3    |      |
| Input Capacitance               | pF       |      | 47   |      |
| Operating Temp. Range           | °C       | -40  |      | +85  |

## Dimensions

