

## Engineering Development Model

### Voltage Controlled Oscillator

ROS-ED8176C/1

#### Important Note

This model has been designed, built and tested in our engineering department. Performance data represents model capability. At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.



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CASE STYLE : CK605

| ELECTRICAL SPECIFICATIONS 50Ω      |      |         |      |        |
|------------------------------------|------|---------|------|--------|
| Parameter                          | Min. | Typ.    | Max. | Units  |
| Frequency                          | 935  |         | 2270 | MHz    |
| Tuning Voltage                     | 0.5  |         | 25   | V      |
| Power Output                       |      | +4      |      | dBm    |
| Phase Noise                        |      |         |      |        |
| at 1 kHz offset                    |      | -70     |      | dBc/Hz |
| at 10 KHz offset                   |      | -96     |      | dBc/Hz |
| at 100 KHz offset                  |      | -118    |      | dBc/Hz |
| at 1000 kHz offset                 |      | -138    |      | dBc/Hz |
| Pulling at 12 dBr PK-PK all phases |      | 8       |      | MHz    |
| Pushing at Vcc=5V±0.25V            |      | 3       |      | MHz/V  |
| Tuning Sensitivity                 |      | 30 - 70 |      | MHz/V  |
| Harmonic Suppression               |      | -11     |      | dBc    |
| 3 dB Modulation Bandwidth          |      | 1000    |      | kHz    |
| Supply Voltage                     |      | 5       |      | V      |
| Supply Current                     |      |         | 25   | mA     |

| MAXIMUM RATINGS                 |                |
|---------------------------------|----------------|
| Operating Temperature           | -55°C to 85°C  |
| Storage Temperature             | -55°C to 100°C |
| Absolute Supply Voltage (Vcc)   | +7V            |
| Absolute Tuning Voltage (Vtune) | +27V           |

| PIN CONNECTIONS |                                |
|-----------------|--------------------------------|
| RF OUT          | 10                             |
| VCC             | 14                             |
| V-TUNE          | 2                              |
| GROUND          | 1,3,4,5,6,7,8,9,11,12,13,15,16 |