

## Engineering Development Model

### Voltage Controlled Oscillator

**ROS-EDR5320**

#### 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                         | 293  |        | 344  | MHz    |
| Tuning Voltage                    | 0.5  |        | 7    | V      |
| Power Output                      |      | +4.5   |      | dBm    |
| Phase Noise                       |      |        |      |        |
| at 1 kHz offset                   |      | -93    |      | dBc/Hz |
| at 10 KHz offset                  |      | -117   |      | dBc/Hz |
| at 100 KHz offset                 |      | -137   |      | dBc/Hz |
| at 1000 kHz offset                |      | -152   |      | dBc/Hz |
| Pulling at 12 dB PK-PK all phases |      | 1      |      | MHz    |
| Pushing at Vcc=5V±0.25V           |      | 0.65   |      | MHz/V  |
| Tuning Sensitivity                |      | 9 - 11 |      | MHz/V  |
| Harmonic Suppression              |      | -29    | -20  | dBc    |
| 3 dB Modulation Bandwidth         |      | 9000   |      | kHz    |
| Supply Voltage                    |      | 12     |      | V      |
| Supply Current                    |      |        | 20   | mA     |

| MAXIMUM RATINGS                 |                |
|---------------------------------|----------------|
| Operating Temperature           | -55°C to 85°C  |
| Storage Temperature             | -55°C to 100°C |
| Absolute Supply Voltage (Vcc)   | +14V           |
| Absolute Tuning Voltage (Vtune) | +9V            |

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