

## Engineering Development Model

# Voltage Controlled Oscillator

# ZOS-ED10431/1

### 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 : BR386**

| ELECTRICAL SPECIFICATIONS 50Ω      |      |         |      |        |
|------------------------------------|------|---------|------|--------|
| Parameter                          | Min. | Typ.    | Max. | Units  |
| Frequency                          | 1250 |         | 1350 | MHz    |
| Tuning Voltage                     | 0    |         | 10   | V      |
| Power Output                       |      | +8      |      | dBm    |
| Phase Noise                        |      |         |      |        |
| at 1 kHz offset                    |      | -74     |      | dBc/Hz |
| at 10 KHz offset                   |      | -99     |      | dBc/Hz |
| at 100 KHz offset                  |      | -120    |      | dBc/Hz |
| at 1000 kHz offset                 |      | -140    |      | dBc/Hz |
| Pulling at 12 dBm PK-PK all phases |      | 0.02    |      | MHz    |
| Pushing at Vcc=5V±0.25V            |      | 1.6     |      | MHz/V  |
| Tuning Sensitivity                 |      | 20 - 25 |      | MHz/V  |
| Harmonic Suppression               |      | -35     |      | dBc    |
| 3 dB Modulation Bandwidth          |      | 8500    |      | kHz    |
| Supply Voltage                     |      | 12      |      | V      |
| Supply Current                     |      |         | 140  | 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) | +12V           |

| PIN CONNECTIONS |   |
|-----------------|---|
| VCC             | 1 |
| V-TUNE          | 2 |
| MAIN RF OUTPUT  | 3 |
| AUX RF OUTPUT   | 4 |