

Engineering Development Model

Voltage Controlled Oscillator

UOS-EDR5218

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 : CZ682

| ELECTRICAL SPECIFICATIONS 50Ω | | | | |
|------------------------------------|------|---------|------|--------|
| Parameter | Min. | Typ. | Max. | Units |
| Frequency | 290 | | 321 | MHz |
| Tuning Voltage | 0.5 | | 3 | V |
| Power Output | | -1 | | dBm |
| Phase Noise | | | | |
| at 1 kHz offset | | -86 | | dBc/Hz |
| at 10 KHz offset | | -107 | | dBc/Hz |
| at 100 KHz offset | | -128 | | dBc/Hz |
| at 1000 kHz offset | | -147 | | dBc/Hz |
| Pulling at 12 dBr PK-PK all phases | | 0.6 | | MHz |
| Pushing at Vcc=5V±0.25V | | 0.6 | | MHz/V |
| Tuning Sensitivity | | 16 - 32 | | MHz/V |
| Harmonic Suppression | | -11.5 | -7 | dBc |
| 3 dB Modulation Bandwidth | | 8700 | | kHz |
| Supply Voltage | | 3 | | V |
| Supply Current | | | 15 | mA |

| MAXIMUM RATINGS | |
|---------------------------------|----------------|
| Operating Temperature | -55°C to 85°C |
| Storage Temperature | -55°C to 100°C |
| Absolute Supply Voltage (Vcc) | +5V |
| Absolute Tuning Voltage (Vtune) | +5V |

| PIN CONNECTIONS | |
|-----------------|-----------|
| RF OUT | 10 |
| VCC | 14 |
| V-TUNE | 1 |
| GROUND | 2,4,6,7,8 |