

## Engineering Development Model

# Voltage Controlled Oscillator

# JTOS-ED6869/2

### 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 : BK377

| ELECTRICAL SPECIFICATIONS 50Ω      |      |        |      |        |
|------------------------------------|------|--------|------|--------|
| Parameter                          | Min. | Typ.   | Max. | Units  |
| Frequency                          | 197  |        | 444  | MHz    |
| Tuning Voltage                     | 1    |        | 20   | V      |
| Power Output                       |      | +7     |      | dBm    |
| Phase Noise                        |      |        |      |        |
| at 1 kHz offset                    |      | -83    |      | dBc/Hz |
| at 10 KHz offset                   |      | -105   |      | dBc/Hz |
| at 100 KHz offset                  |      | -125   |      | dBc/Hz |
| at 1000 kHz offset                 |      | -143   |      | dBc/Hz |
| Pulling at 12 dBm PK-PK all phases |      | 0.6    |      | MHz    |
| Pushing at Vcc=5V±0.25V            |      | 0.2    |      | MHz/V  |
| Tuning Sensitivity                 |      | 7 - 16 |      | MHz/V  |
| Harmonic Suppression               |      | -25    |      | dBc    |
| 3 dB Modulation Bandwidth          |      | 260    |      | kHz    |
| Supply Voltage                     |      | 12     |      | 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)   | +14V           |
| Absolute Tuning Voltage (Vtune) | +22V           |

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