

# Engineering Development Model

## Voltage Controlled Oscillator

ROS-ED14840/1

### 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.

Please click "Back", and then click "Contact Us" for Applications support.



CASE STYLE : CK1113

| ELECTRICAL SPECIFICATIONS 50Ω      |      |         |      |        |
|------------------------------------|------|---------|------|--------|
| Parameter                          | Min. | Typ.    | Max. | Units  |
| Frequency                          | 2898 |         | 2907 | MHz    |
| Tuning Voltage                     | .5   |         | 4.5  | V      |
| Power Output                       |      | 5       |      | dBm    |
| Phase Noise                        |      |         |      |        |
| at 1 kHz offset                    |      | -94     |      | dBc/Hz |
| at 10 KHz offset                   |      | -118    |      | dBc/Hz |
| at 100 KHz offset                  |      | -138    |      | dBc/Hz |
| at 1000 kHz offset                 |      | -158    |      | dBc/Hz |
| Pulling at 12 dBr PK-PK all phases |      | .6      |      | MHz    |
| Pushing at Vcc ± 5%                |      | .2      |      | MHz/V  |
| Tuning Sensitivity                 |      | 4-6     |      | MHz/V  |
| Harmonic Suppression               |      | -15     |      | dBc    |
| 3 dB Modulation Bandwidth          |      | 191,000 |      | kHz    |
| Supply Voltage                     |      | 8       |      | V      |
| Supply Current                     |      |         | 30   | mA     |

| MAXIMUM RATINGS                 |                |
|---------------------------------|----------------|
| Operating Temperature           | -55°C to 85°C  |
| Storage Temperature             | -55°C to 100°C |
| Absolute Supply Voltage (Vcc)   | +10V           |
| Absolute Tuning Voltage (Vtune) | +6V            |

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



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 • Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site  
The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: [www.minicircuits.com](http://www.minicircuits.com)



IF/RF MICROWAVE COMPONENTS



REV. X1  
ROS-ED14840/1  
12/14/2012  
Page 1 of 1