

VOLTAGE CONTROLLED SAW OSCILLATOR

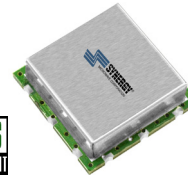
SURFACE MOUNT MODEL: VCISO-OC12

OPTIMIZED BANDWIDTH

622.08 MHz

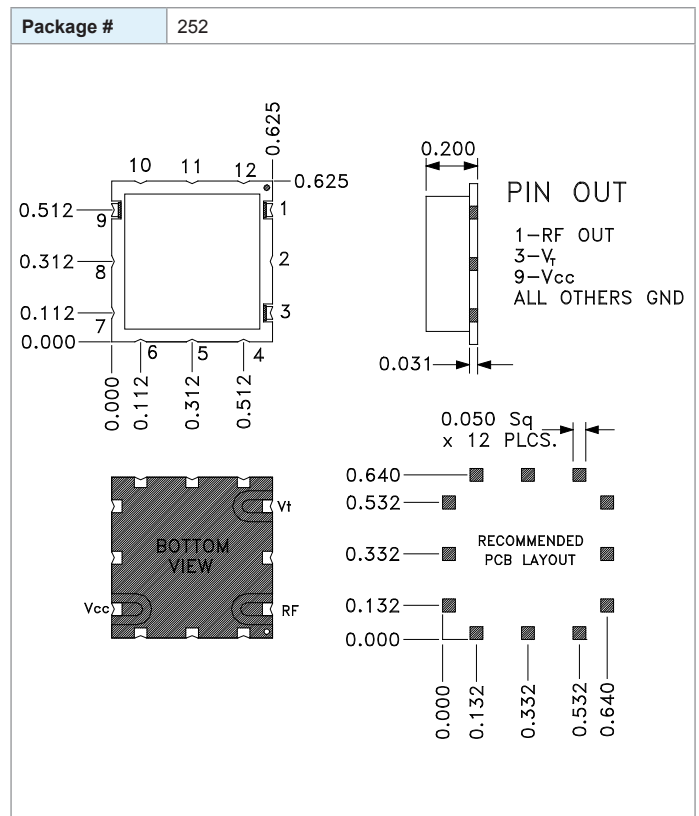
FEATURES:

- ▶ Exceptional Phase Noise (Low Jitter)
- ▶ Superb Immunity To Microphonics
- ▶ Tuning Linearity <3:1
- ▶ Suitable For Automated Assembly
- ▶ Well Suited For LMDS, SONET, Digital Radio With Higher Order QAM Applications
- ▶ Compact Size (0.625" x 0.625")



SPECIFICATIONS (Rev. A 10/24/12)

| Frequency | 622.08 MHz | | | | | | | | | | | | |
|-----------------------------|--|-------------|--------|----------|------------|---------|-------------|----------|-------------|-----------|-------------|-----------|-------------|
| Tuning Range | 200 ppm | | | | | | | | | | | | |
| Tuning Voltage | 1 to 8 V | | | | | | | | | | | | |
| Supply Voltage | +5 V @ 96 mA | | | | | | | | | | | | |
| Output Power | +10 dBm (Typ.) | | | | | | | | | | | | |
| Output Impedance | 50 Ohms | | | | | | | | | | | | |
| Harmonic Rejection | 30 dB (Typ.) / 20 dB (Min.) | | | | | | | | | | | | |
| VSWR | 1.5:1 | | | | | | | | | | | | |
| Typical Phase Noise | <table border="1"> <thead> <tr> <th>Offset</th> <th>dBc/Hz</th> </tr> </thead> <tbody> <tr> <td>@ 100 Hz</td> <td>-80 dBc/Hz</td> </tr> <tr> <td>@ 1 kHz</td> <td>-100 dBc/Hz</td> </tr> <tr> <td>@ 10 kHz</td> <td>-130 dBc/Hz</td> </tr> <tr> <td>@ 100 kHz</td> <td>-155 dBc/Hz</td> </tr> <tr> <td>@ 300 kHz</td> <td>-162 dBc/Hz</td> </tr> </tbody> </table> | Offset | dBc/Hz | @ 100 Hz | -80 dBc/Hz | @ 1 kHz | -100 dBc/Hz | @ 10 kHz | -130 dBc/Hz | @ 100 kHz | -155 dBc/Hz | @ 300 kHz | -162 dBc/Hz |
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| Operating Temperature Range | -20 to +70 °C | | | | | | | | | | | | |

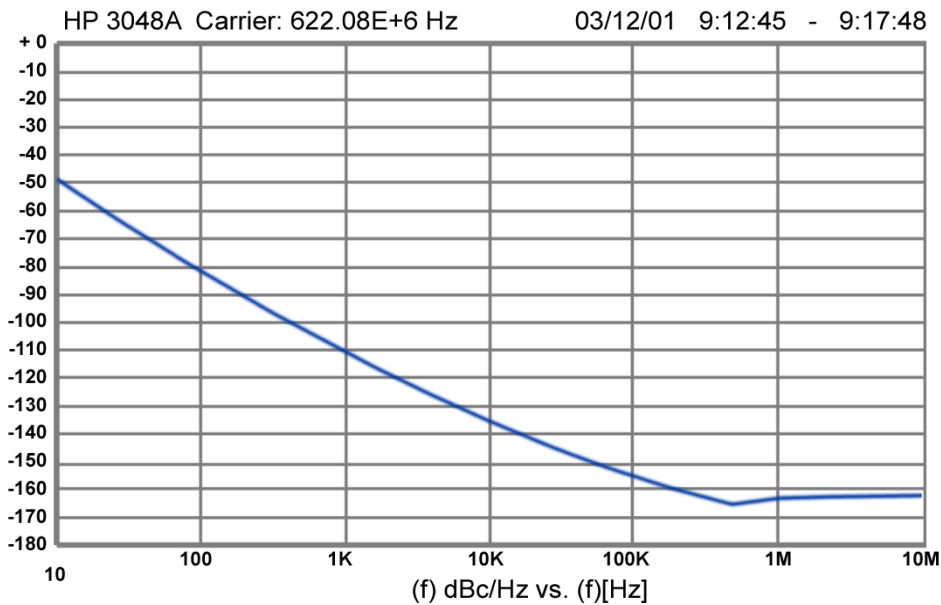


This product is manufactured under one or more of the following patents: Approved: 5,160,810; 5,122,621; 5,390,349; 5,416,449; 5,650,754; 5,805,431; 6,525,623; 6,850,575; 7,088,189; 7,180,381; 7,196,591; 7,262,670; 7,265,642; 7,292,113; 7,365,612; 7,495,525; 2,548,311; 2,548,317; 7,545,229; 7,580,693; 7,586,381; 7,605,670; 7,636,021; 2,533,623 | Pending: 60/493075; 60/501371 & 60/501790; 60/527957 & 60/528670; 60/563481; 60/564173; 60/589090; 60/601823; 60/605791; EV31369834; 11/259766; 60/622485 & 60/710310; 10/937525/60/736901; 60/732787; 7,495,525; 2,548,311; 2,548,317; 7,545,229; 2,563,174; 7,580,693; 7,612,296; 2,524,751

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PERFORMANCE PLOTS

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201 McLean Boulevard • Paterson, New Jersey 07504 USA • Tel: (973) 881-8800 • Fax: (973) 881-8361
E-Mail: sales@synergymwave.com • World Wide Web: http://www.synergymwave.com

