

# VOLTAGE CONTROLLED OSCILLATOR

## SURFACE MOUNT MODEL: DCMO150320-5

WIDE BANDWIDTH

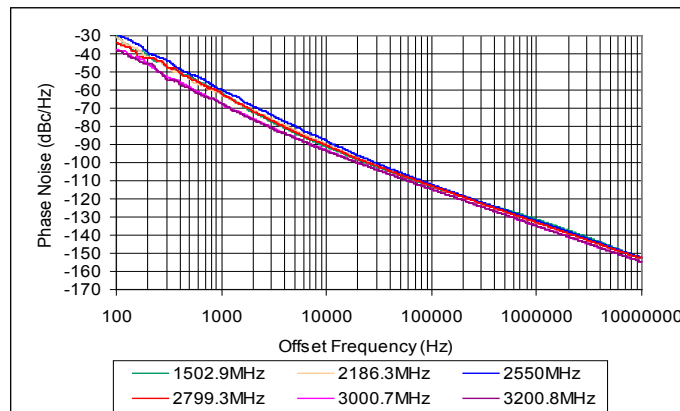
1500 - 3200 MHz

### FEATURES:

- ▶ Exceptional Phase Noise Performance
- ▶ Small Size, Surface Mount
- ▶ Lead Free REL-PRO® Technology



### Phase Noise



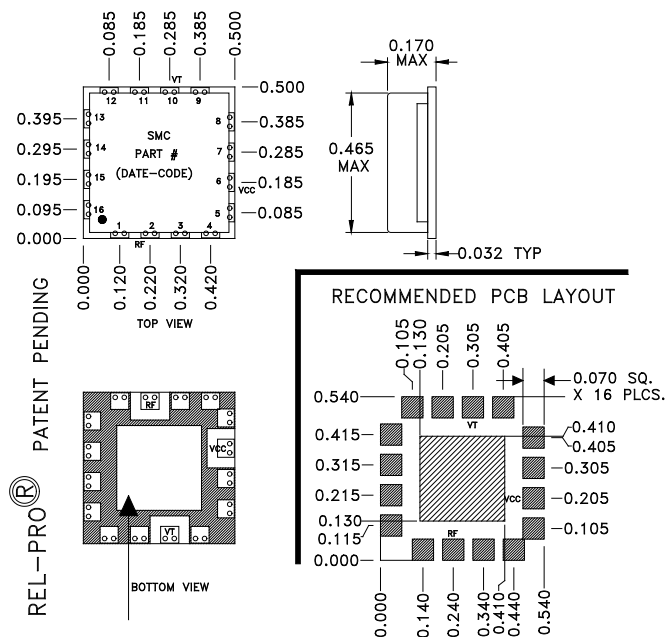
### SPECIFICATIONS (Rev. G 11/27/07)

|                             |                             |
|-----------------------------|-----------------------------|
| Frequency                   | 1500 - 3200 MHz             |
| Tuning Voltage (Full Band)  | 0.5 - 18 VDC (Nom.)         |
| Bias Voltage                | +5 VDC @ 60 mA (Max.)       |
| Output Power                | 0 dBm (Min.)                |
| Tuning Sensitivity          | 100 - 225 MHz/V (Typ.)      |
| Output Impedance            | 50 Ohms (Nom)               |
| Harmonic Suppression        | 12 dBc (Typ.)               |
| Frequency Pulling           | 12 MHz (Max. @ 1.75:1 VSWR) |
| Frequency Pushing           | 2 MHz/V (Max.)              |
| Phase Noise @ 10 kHz        | -92 dBc/Hz (Typ.)           |
| Operating Temperature Range | -40 to +85 °C               |

### Guaranteed Tuning Specifications

| Tuning Voltage ( V ) | Frequency ( MHz ) |
|----------------------|-------------------|
| 0.5                  | 1500 (Max)        |
| 5                    | 1900 (Min)        |
| 8                    | 2300 (Min)        |
| 12                   | 2800 (Min)        |
| 15                   | 3000 (Min)        |
| 18                   | 3200 (Min)        |

Package # 278LF



OPTIONAL SOLDER AREA FOR HIGH VIBRATION ENVIRONMENT  
 TOLERANCES ON THREE DECIMAL PLACES= ± 0.015  
 PACKAGE MOUNTING: SEE APPLICATION NOTE AN7200

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  
 Pending: 60/493075; 60/501371 & 60/501790; 60/527957 & 60/529570; 60/563481; 60/564173; 60/589090; 60/601823; 60/605791; EV31369634; 11/259766; 60/622485 & 60/710310; 10/937525/60/736901; 60/732787

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 E-Mail: sales@synergymw.com • World Wide Web: http://www.synergymw.com



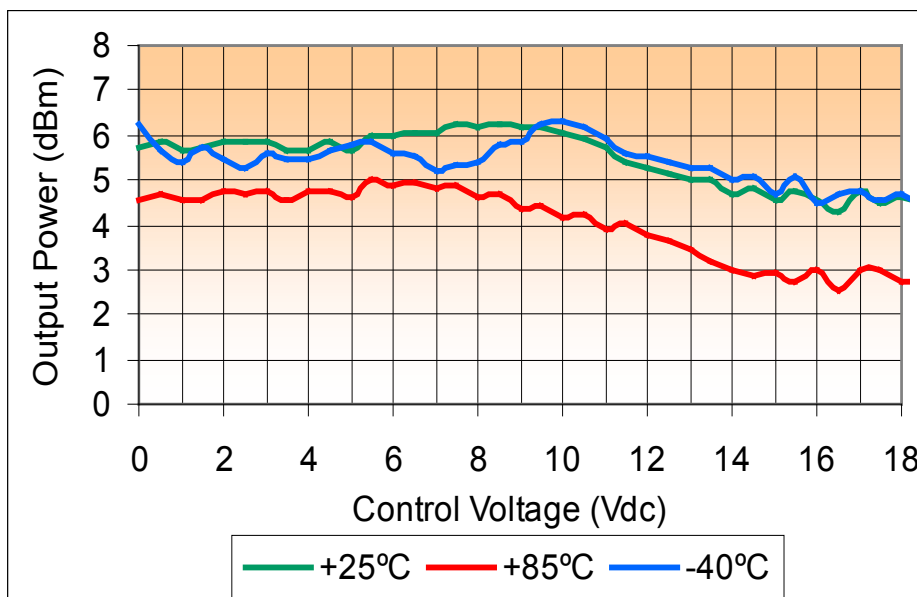
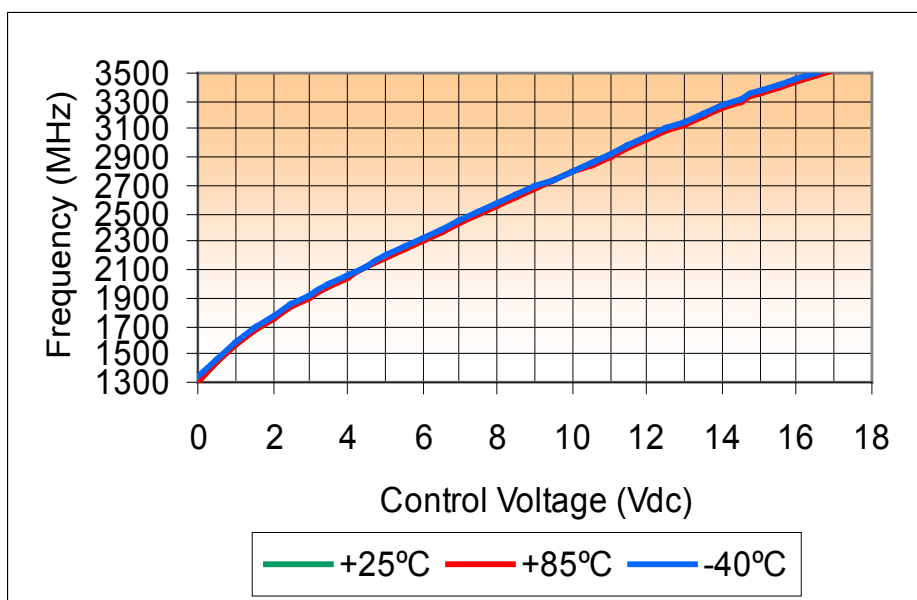
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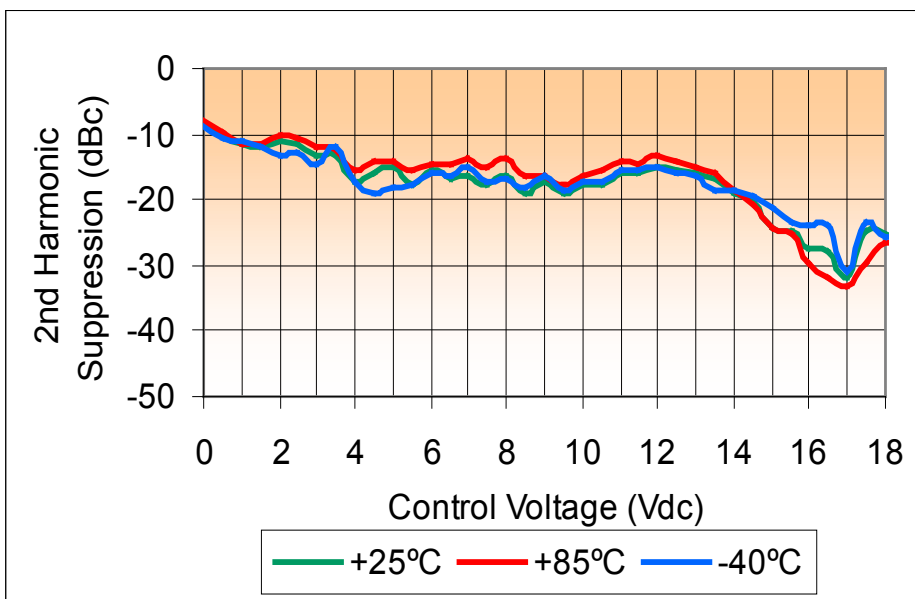
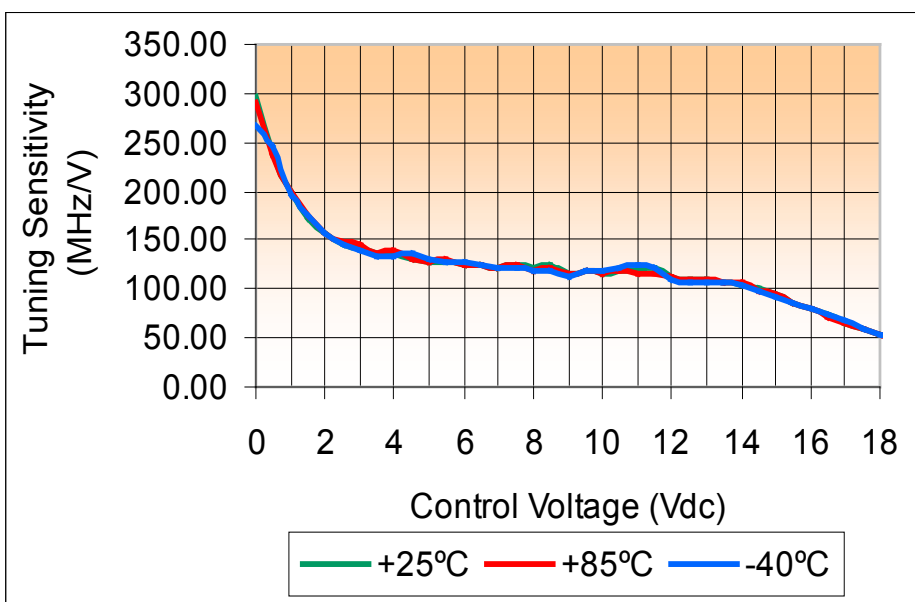
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