

VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: DCMO60170-12

WIDE BANDWIDTH

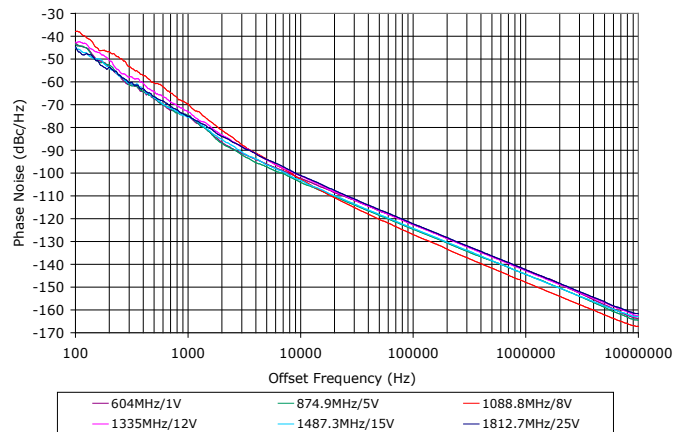
600 - 1700 MHz

FEATURES:

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



Phase Noise



SPECIFICATIONS (Rev. A 11/20/07)

Frequency	600 - 1700 MHz
Tuning Voltage (Full Band)	See table below.
Bias Voltage	+12 VDC @ 35 mA (Max.)
Output Power	+3 dBm (Min.)
Tuning Sensitivity	30 - 85 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	10 dB (Typ.)
Frequency Pulling	5 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing	5 MHz/V (Typ.)
Tuning Port Capacitance	194 pF (Typ.)
Phase Noise @ 10 kHz	-100 dBc/Hz (Typ.)
Operating Temperature Range	-40 to +85 °C

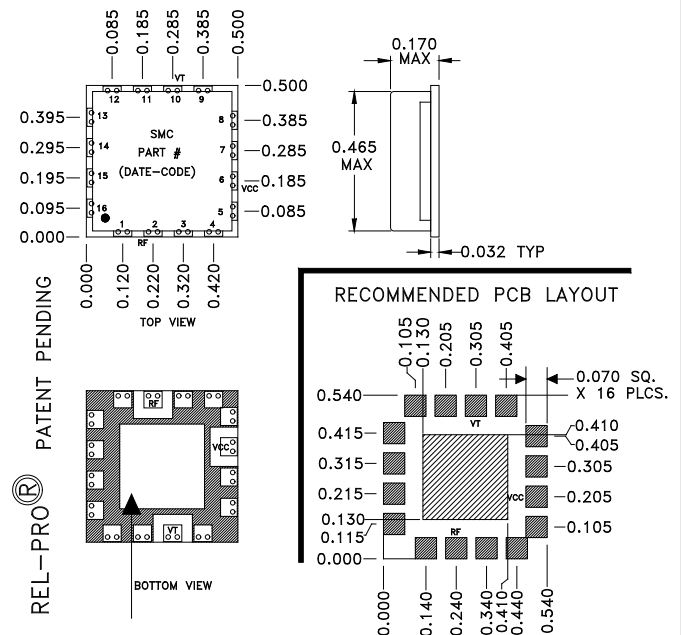
Guaranteed Tuning Specifications

Tuning Voltage (V)	Frequency (MHz)
0.5	600 (Max.)
5	780 (Min.)
8	1025 (Min.)
12	1270 (Min.)
15	1430 (Min.)
18	1530 (Min.)
25	1700 (Min.)

Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+12 V
Tuning Voltage	+25 V
DC Voltage Applied to RF Out	± 25 V

Package # 278LF



This product is manufactured under one or more of the following patents: Approved: 5,180,810; 5,122,621; 5,330,346; 5,416,446; 5,650,754; 5,805,431; 6,325,623; 6,856,573; 7,088,189; 7,180,381; 7,185,591; 7,265,642; 7,292,113
 Pending: 65/49,307; 60/501,371 & 65/581,796; 60/507,957 & 65/536,675; 60/563,481; 60/564,173; 60/580,083; 60/601,822; 60/605,791; 60/613,603; 60/623,485 & 65/710,112; 60/637,325 & 60/736,901; 60/732,787

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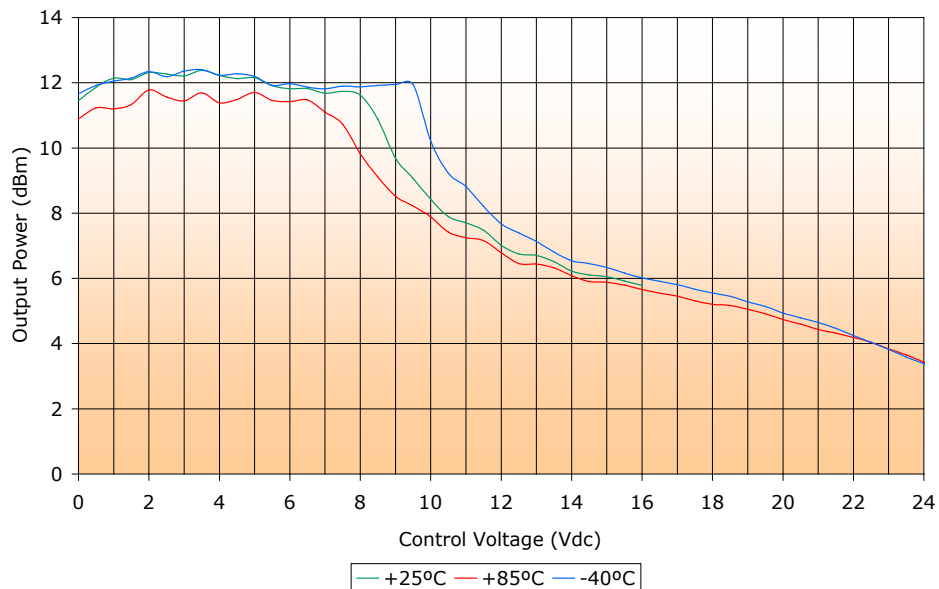
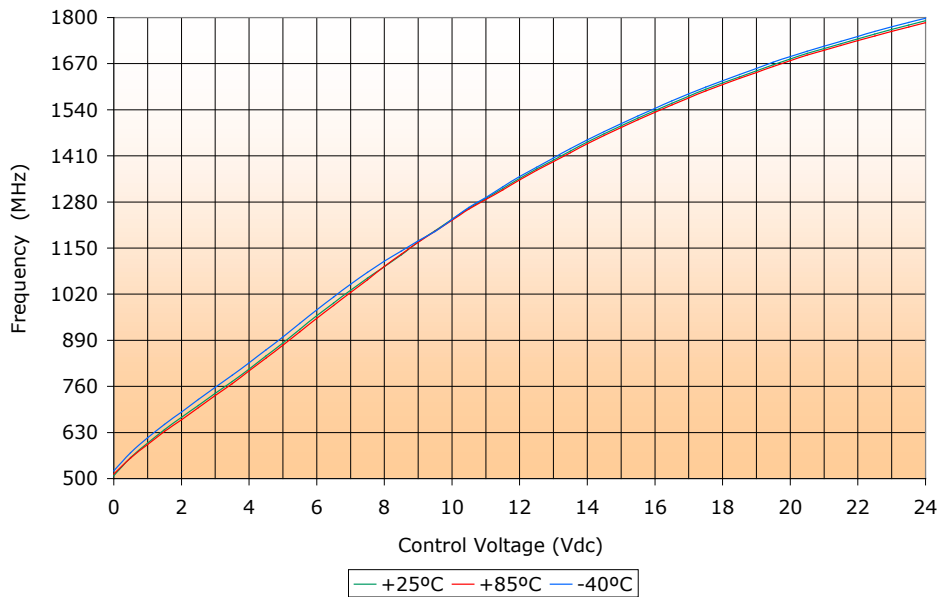
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PERFORMANCE PLOTS



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RU258768; 6,662,485 & 6,671,021; RU60732560736901; 6,673,078

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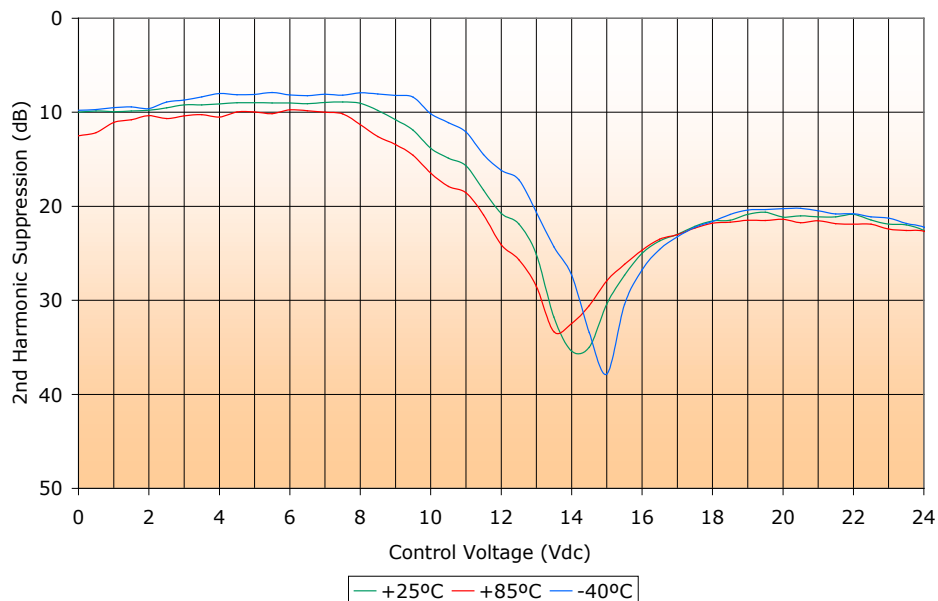
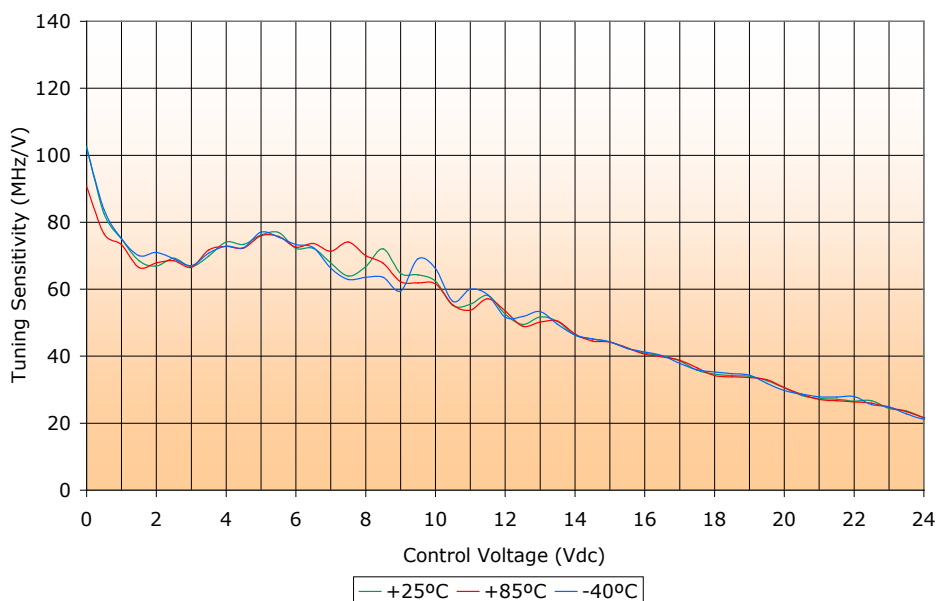
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 6,673,768; 6,682,485 & 6,671,031; 6,687,325; 6,673,601; 6,673,787

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