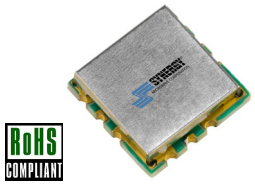
VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCO7075-3

OPTIMIZED BANDWIDTH 700 - 750 MHz

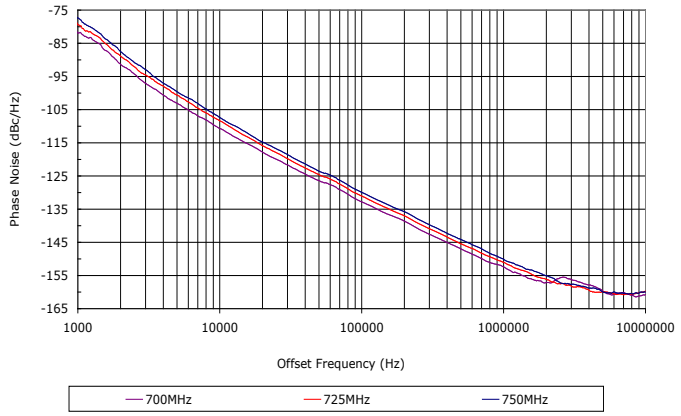
FEATURES:

- Miniature Size, Surface Mount (0.3" x 0.3")
- Exceptional Phase Noise Performance
- Fast Tuning
- Planar Resonator Construction



RoHS COMPLIANT

Phase Noise



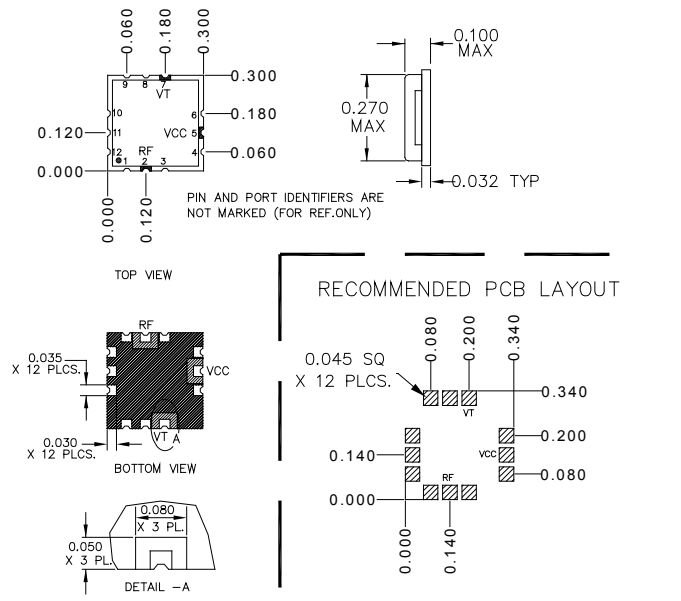
SPECIFICATIONS (Rev C 01/09/14)

Frequency	700 - 750 MHz
Tuning Voltage	0 to 3.0 V
Bias Voltage	+3 VDC @ 12 mA (Max.)
Output Power	-3 dBm (Min.)
Tuning Sensitivity	30 - 42 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	16 dB (Typ.)
Frequency Pulling	2 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing	2 MHz/V (Typ.)
Tuning Port Capacitance	100 pF (Typ.)
Typical Phase Noise	**Offset** / **dBc/Hz**: 10 kHz / -108; 100 kHz / -130
Operating Temperature Range	-40 to +85 °C

Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 ºC
Bias Voltage	+3.3 V
Tuning Voltage	+10 V
DC Voltage Applied to RF Out	±25 V

Package # 343



PACKAGE MOUNTING: SEE APPLICATION NOTE AN7300 & AN7302

TOLERANCES ON THREE DECIMAL PLACES= ± 0.015

DIMENSIONS ARE IN INCHES. ALL UNLABELED PINS TO BE GROUNDED.

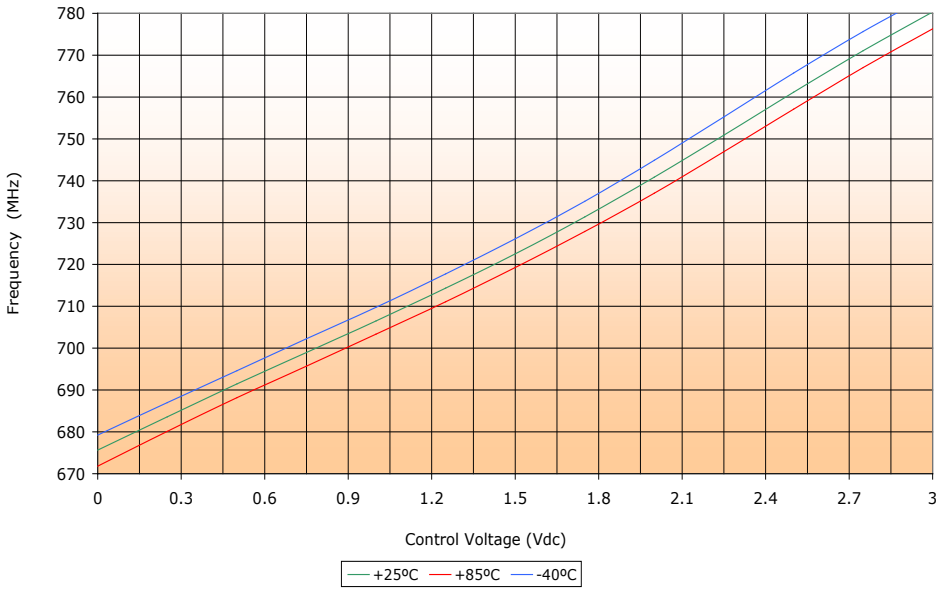
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Tel: (973) 881-8800 • Fax: (973) 881-8361
E-Mail: sales@synergymwave.com • Website: http://www.synergymwave.com
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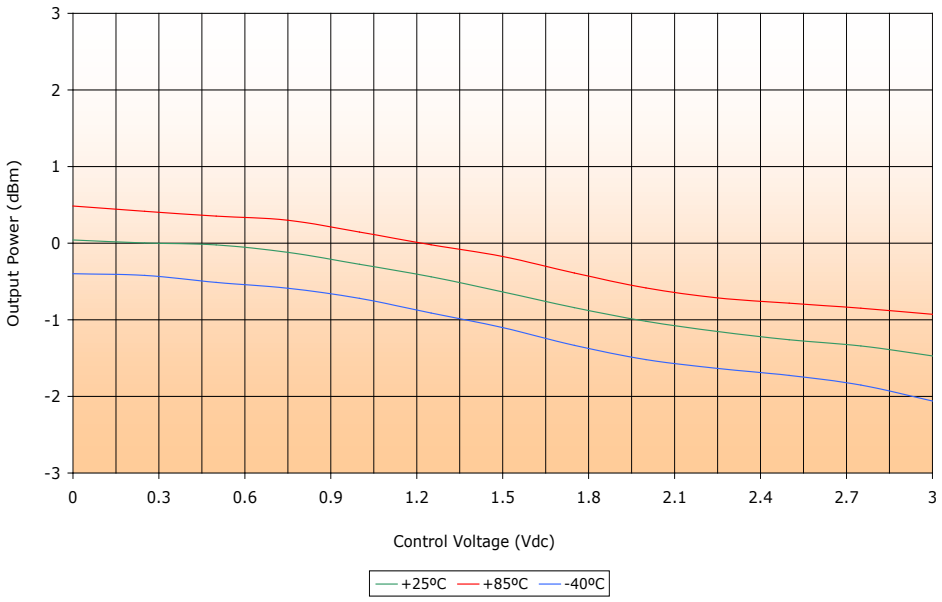
SYNERGY® MICROWAVE CORPORATION

VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCO7075-3

OPTIMIZED BANDWIDTH 700 - 750 MHz

PERFORMANCE PLOTS





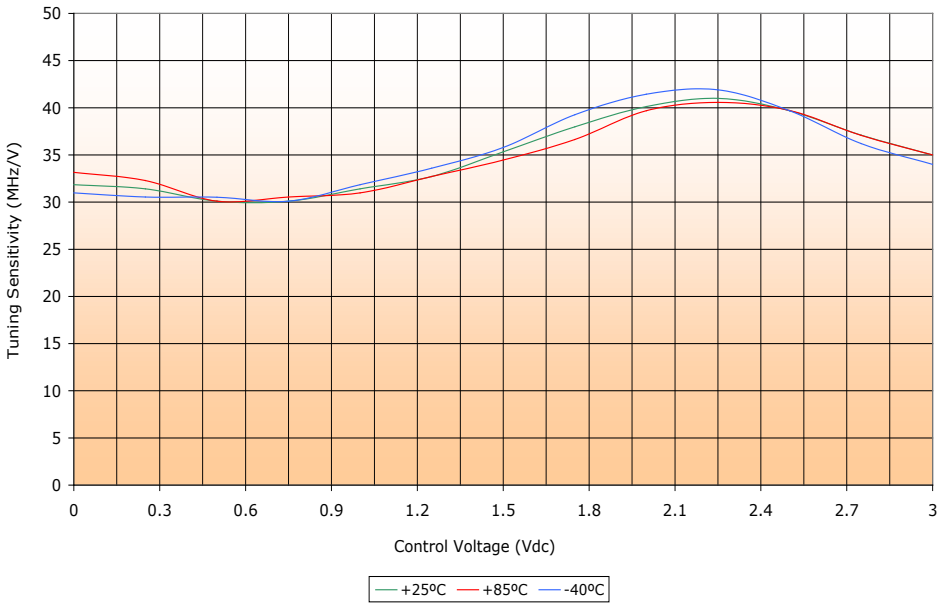
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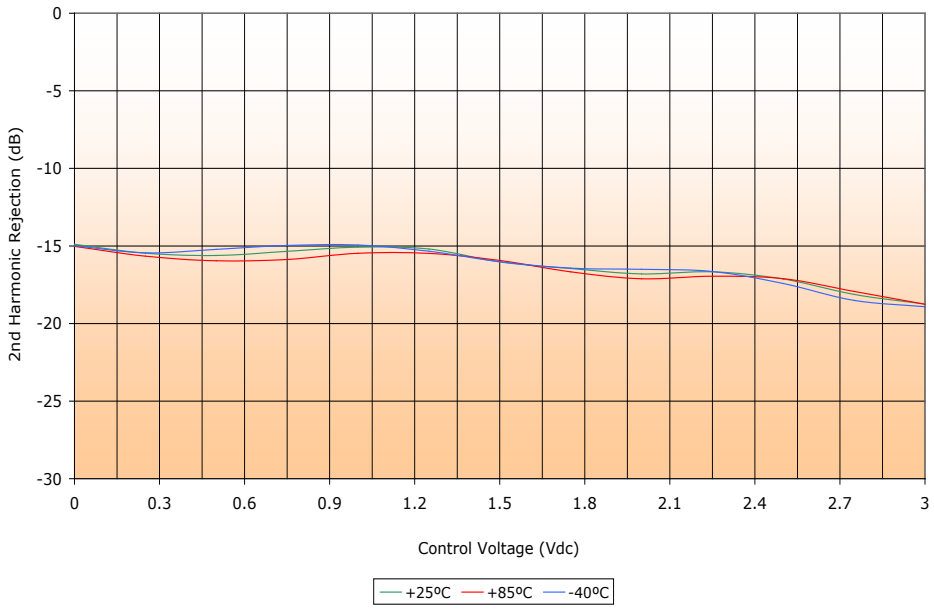
SYNERGY® MICROWAVE CORPORATION

VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCO7075-3

OPTIMIZED BANDWIDTH 700 - 750 MHz

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 • Website: http://www.synergymwave.com
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