

VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: DCO495550-5

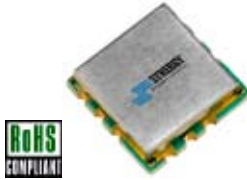
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OPTIMIZED BANDWIDTH

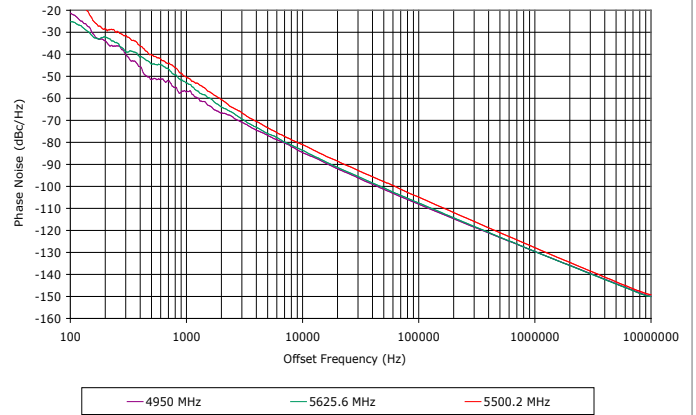
4950 - 5500 MHz

FEATURES:

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



Phase Noise



SPECIFICATIONS

Frequency	4950 - 5500 MHz	
Tuning Voltage	See table below.	
Bias Voltage	+5 VDC @ 22 mA (Max.)	
Output Power	-1 dBm (Min.)	
Tuning Sensitivity	80 - 120 MHz/V (Typ.)	
Output Impedance	50 Ohms (Nom.)	
Harmonic Suppression	25 dB (Typ.)	
Frequency Pulling	10 MHz (Typ. @ 1.75:1 VSWR)	
Frequency Pushing	10 MHz/V (Typ.)	
Tuning Port Capacitance	10 pF (Typ.)	
Typical Phase Noise	Offset	dBc/Hz
	10 kHz	-83
	100 kHz	-107
Operating Temperature Range	-40 to +85 °C	

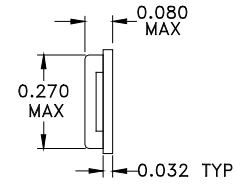
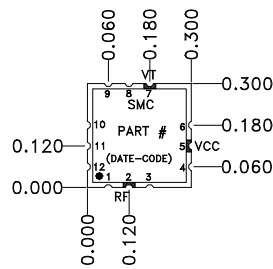
Guaranteed Tuning Specifications

Tuning Voltage (V)	Frequency (MHz)
0.5	4950 (Max.)
5	5125 (Min.)
8	5270 (Min.)
12	5500 (Min.)

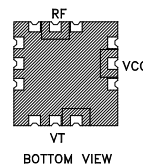
Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+5.5 V
Tuning Voltage	+15 V
DC Voltage Applied to RF Out	± 25 V

Package # 343

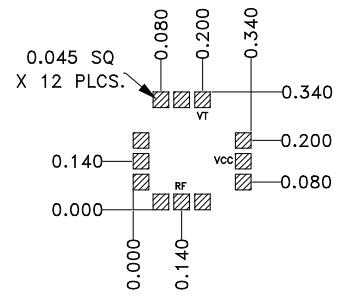


TOP VIEW



BOTTOM VIEW

RECOMMENDED PCB LAYOUT



DIMENSIONS ARE IN INCHES.

TOLERANCES ON THREE DECIMAL PLACES = ± 0.015

ALL UNLABELED PINS TO BE GROUNDED.

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 | 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

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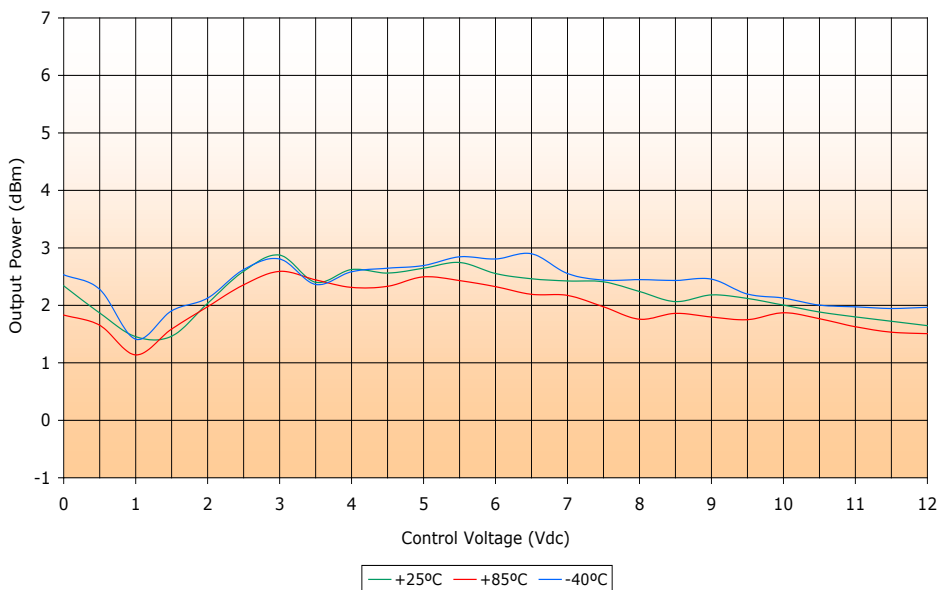
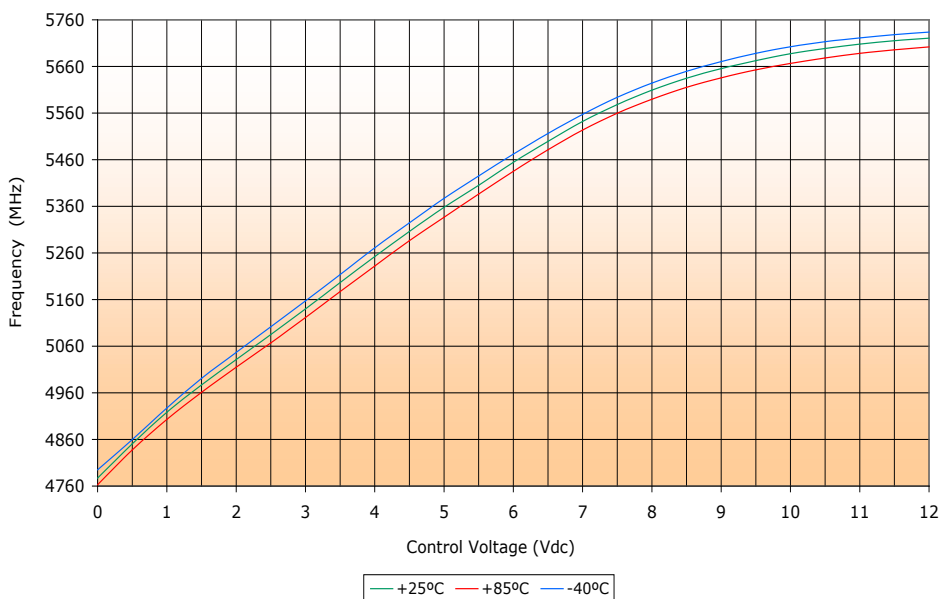
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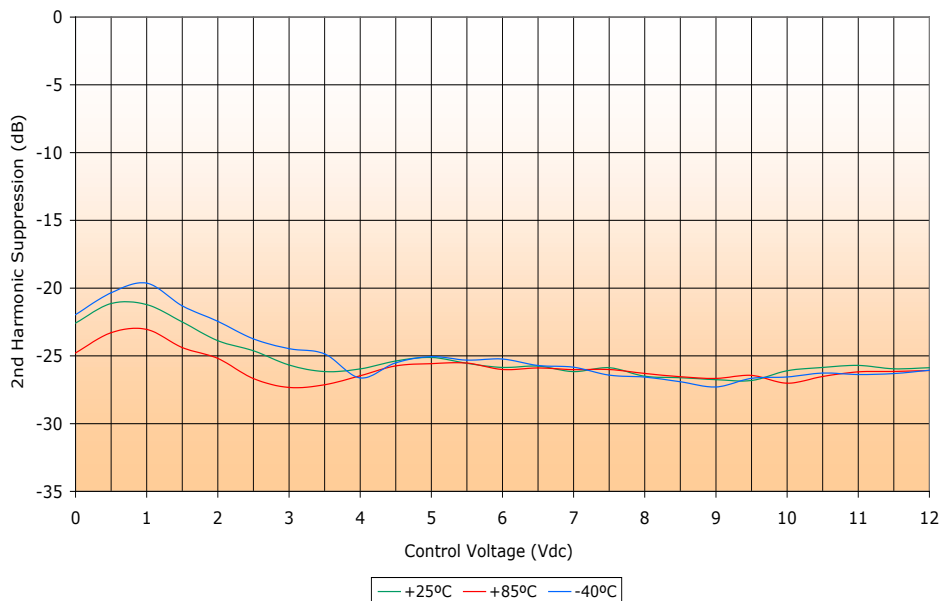
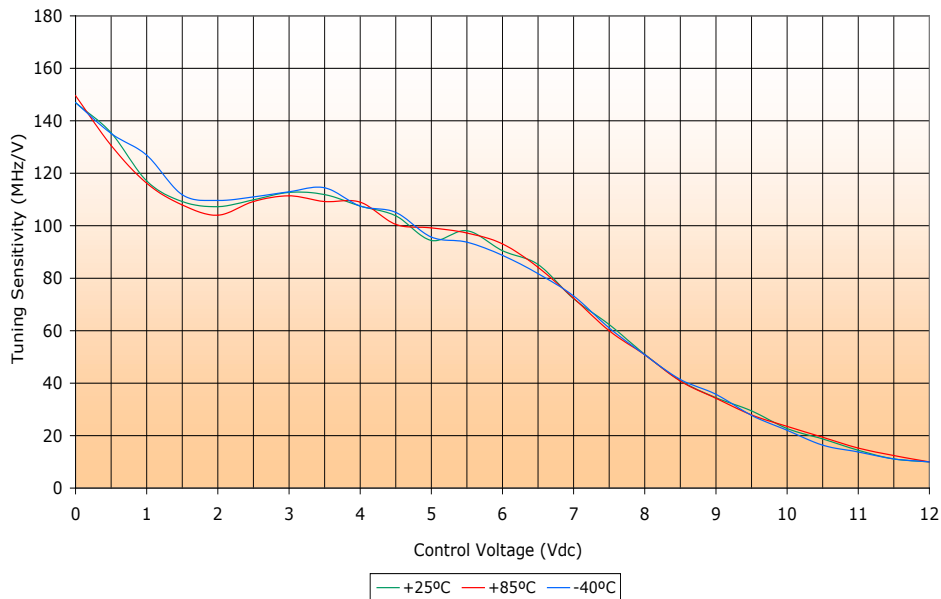
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