

VOLTAGE CONTROLLED OSCILLATOR

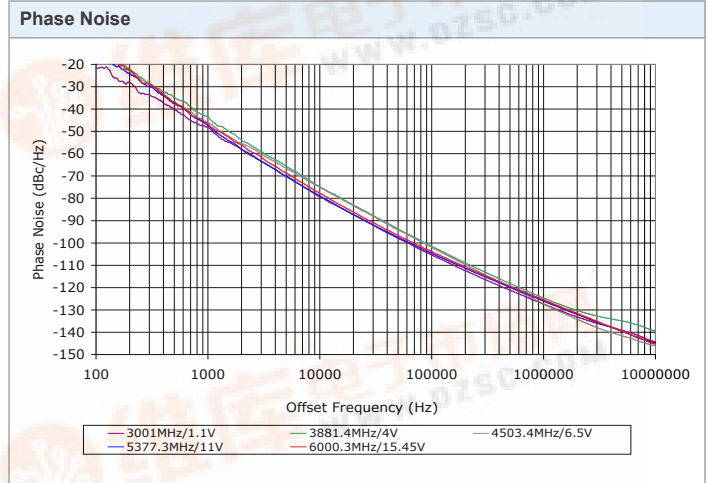
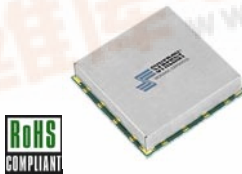
SURFACE MOUNT MODEL: DCYS300600-5

YIG Replacement Series

3000 - 6000 MHz

FEATURES:

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



SPECIFICATIONS (Rev. D 08/28/07)

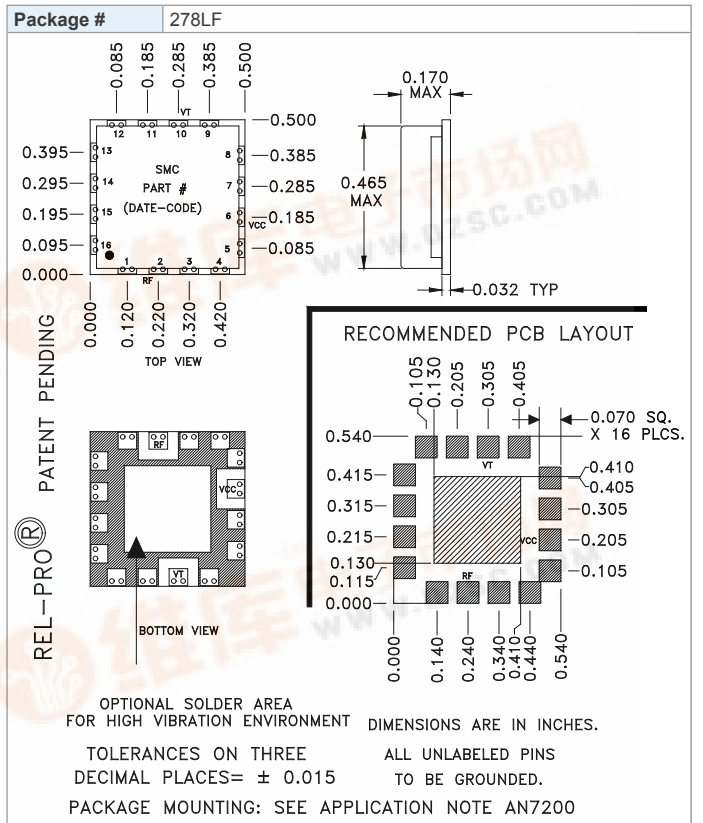
Frequency	3000 - 6000 MHz
Tuning Voltage (Full Band)	See table below.
Bias Voltage	+5 VDC @ 50 mA (Max.)
Output Power	-1 dBm (Min.)
Tuning Sensitivity	70 - 330 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	25 dB (Typ.)
Frequency Pulling	16 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing	8 MHz/V (Typ.)
Tuning Port Capacitance	30 pF (Typ.)
Phase Noise @ 10 kHz	-77 dBc/Hz (Typ.)
Operating Temperature Range	-40 to +85 °C

Guaranteed Tuning Specifications

Tuning Voltage (V)	Frequency (MHz)
0.3	3000 (Max.)
5	3950 (Min.)
8	4700 (Min.)
12	5400 (Min.)
17	6000 (Min.)

Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+5.5 V
Tuning Voltage	+22 V
DC Voltage Applied to RF Out	± 25 V



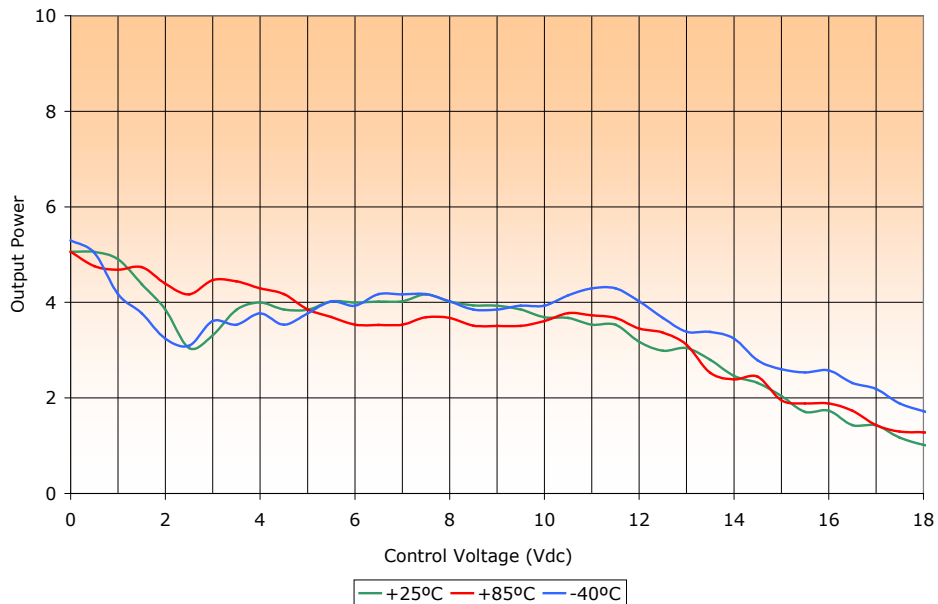
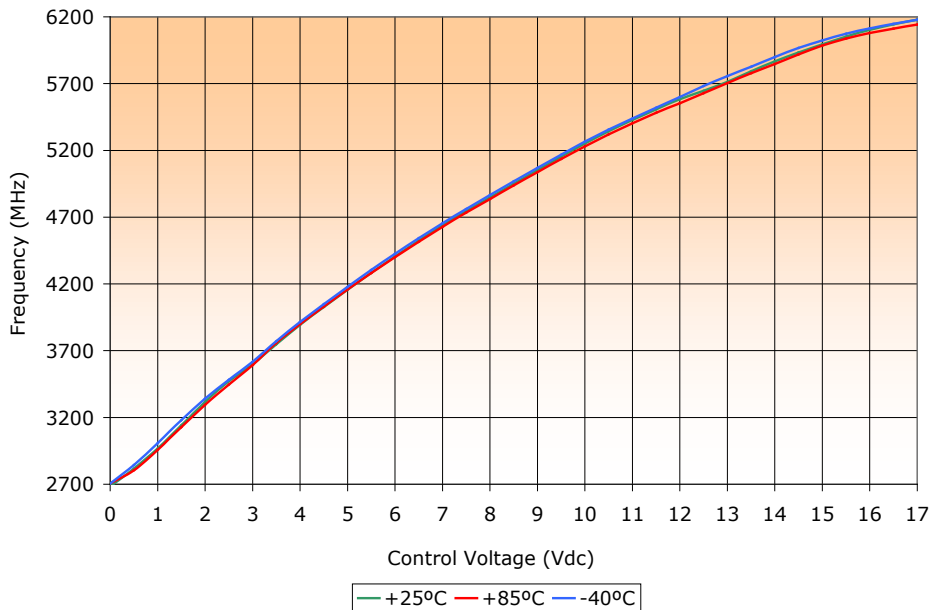
VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: DCYS300600-5

YIG Replacement Series

3000 - 6000 MHz

PERFORMANCE PLOTS



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
 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

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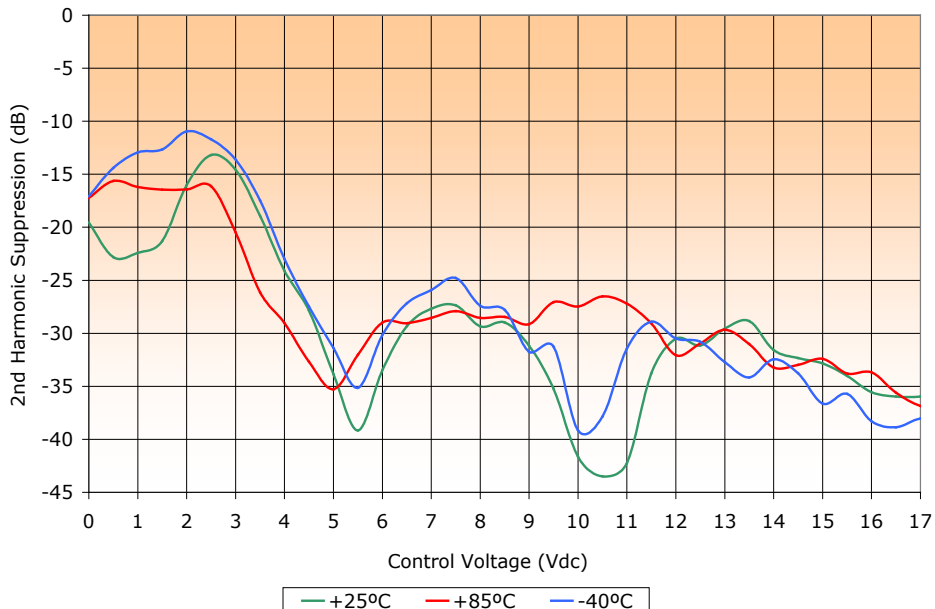
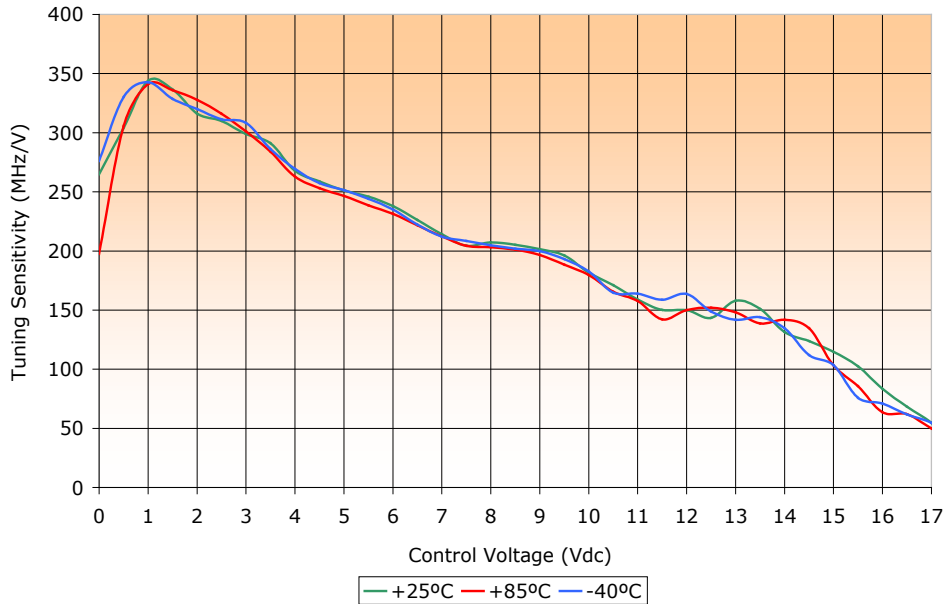


VOLTAGE CONTROLLED OSCILLATOR SURFACE MOUNT MODEL: DCYS300600-5

YIG Replacement Series

3000 - 6000 MHz

PERFORMANCE PLOTS



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