

VOLTAGE CONTROLLED OSCILLATOR

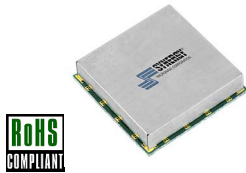
SURFACE MOUNT MODEL: DCYS300600P-5

YIG REPLACEMENT SERIES

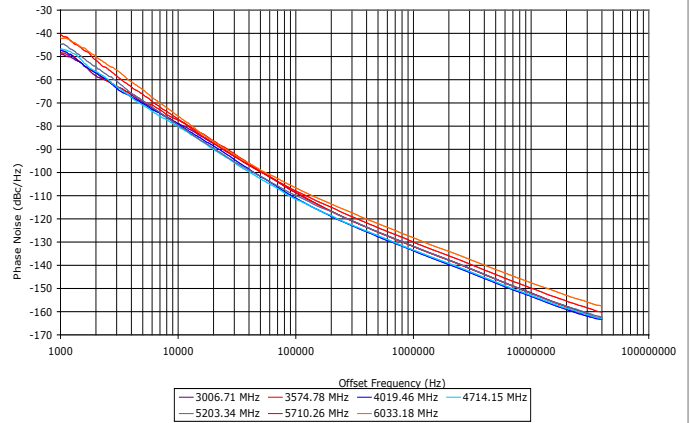
3000 - 6000 MHz

FEATURES:

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



Phase Noise

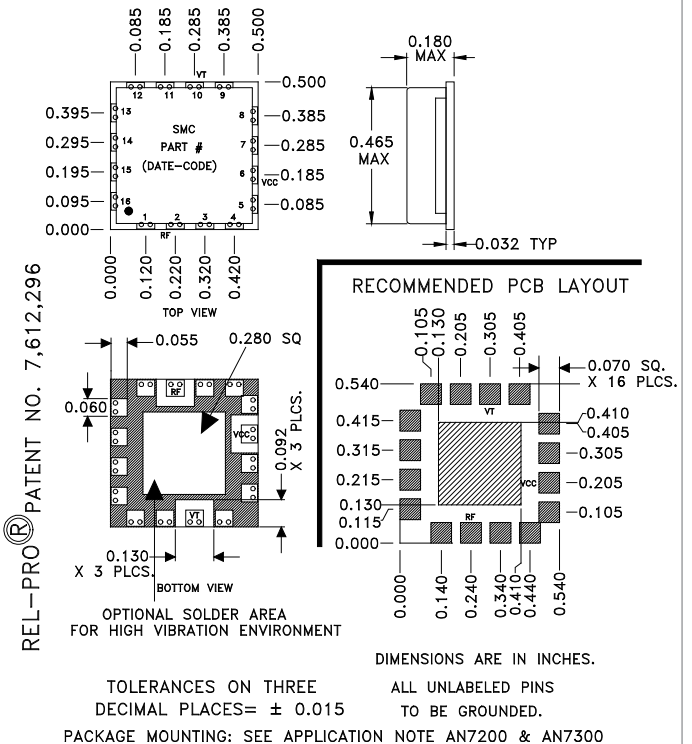


SPECIFICATIONS

Frequency	3000 - 6000 MHz												
Tuning Voltage	See table below.												
Bias Voltage	+5 VDC @ 62 mA (Max.)												
Output Power	2 dBm (Min.)												
Tuning Sensitivity	70 - 475 MHz/V (Typ.)												
Output Impedance	50 Ohms (Nom.)												
Harmonic Suppression	15 dB (Typ.)												
Frequency Pulling	16 MHz (Typ. @ 1.75:1 VSWR)												
Frequency Pushing	8 MHz/V (Typ.)												
Tuning Port Capacitance	30 pF (Typ.)												
Typical Phase Noise *	<table border="1"> <thead> <tr> <th>Offset</th> <th>dBc/Hz</th> </tr> </thead> <tbody> <tr> <td>10 kHz</td> <td>-78</td> </tr> <tr> <td>100 kHz</td> <td>-109</td> </tr> <tr> <td>1 MHz</td> <td>-130</td> </tr> <tr> <td>10 MHz</td> <td>-150</td> </tr> <tr> <td>100 MHz</td> <td>-165</td> </tr> </tbody> </table>	Offset	dBc/Hz	10 kHz	-78	100 kHz	-109	1 MHz	-130	10 MHz	-150	100 MHz	-165
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	10 kHz	-78											
	100 kHz	-109											
	1 MHz	-130											
10 MHz	-150												
100 MHz	-165												
Operating Temperature Range	-40 to +85 °C												

* Phase noise tested at ambient room temperature.

Package # 278LF



Guaranteed Tuning Specifications

Tuning Voltage (V)	Frequency (MHz)
0.1	3000 (Max.)
5	3950 (Min.)
8	4900 (Min.)
12	5600 (Min.)
16	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

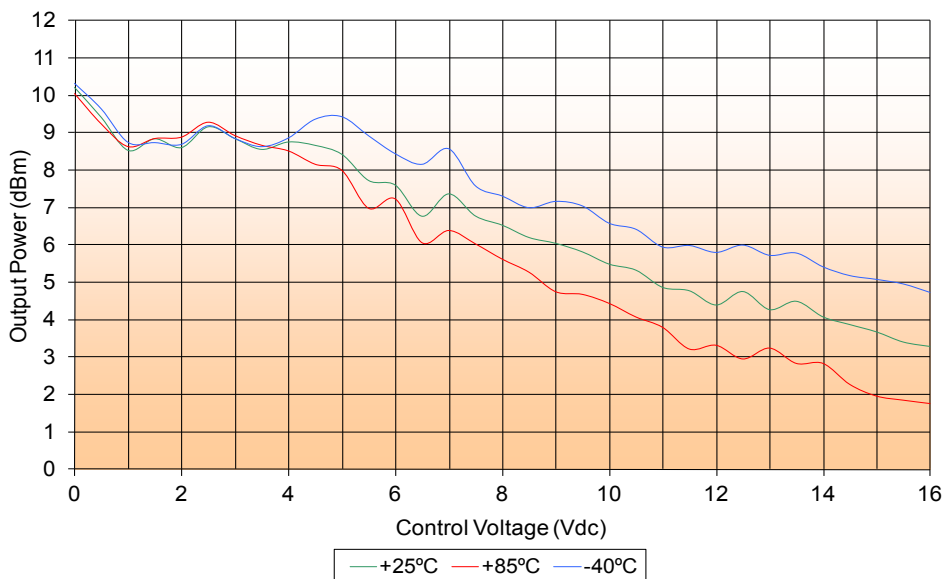
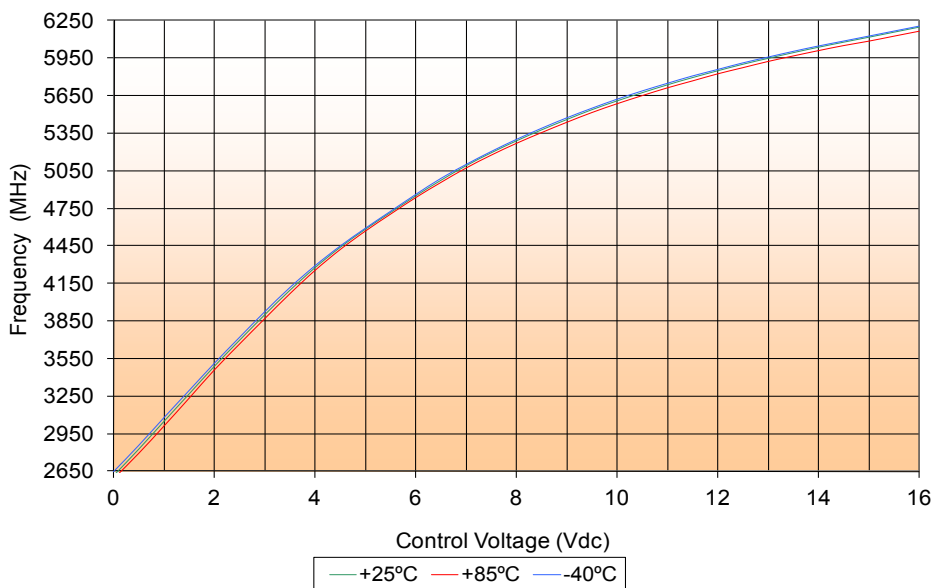
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