

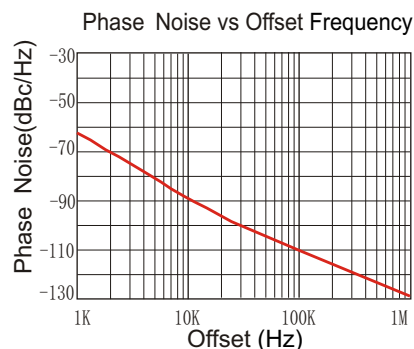
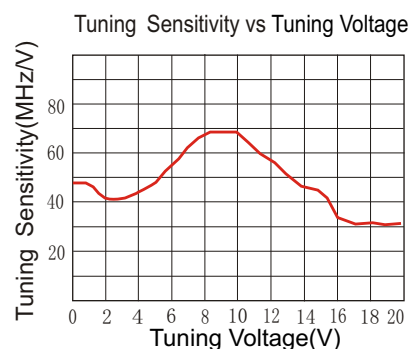
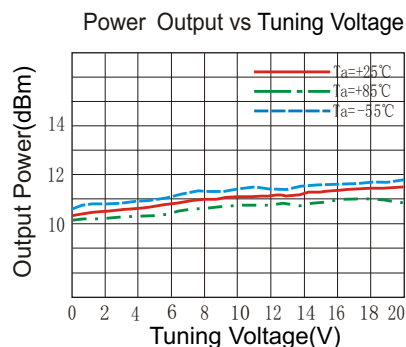
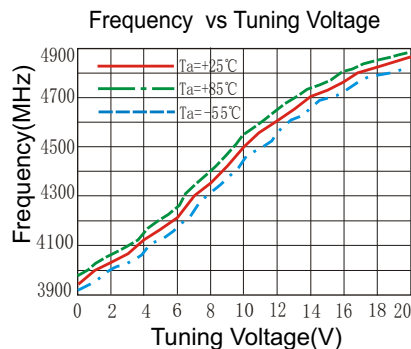
### Features

- Built-in buffer amplifier low frequency pulling
- Ultra low phase noise
- Flexible tuning design, custom frequency range  
300~4700MHz available bandwidth 10~30%
- Thin film hybrid construction
- TO-8D、SMO-8D、SP-1 packages available
- Operating temperature range: -55℃~+85℃

### Specifications( $T_A=25^\circ\text{C}$ , $V_{CC}=+12\text{V}$ )

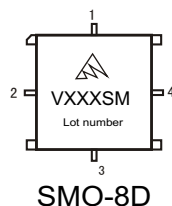
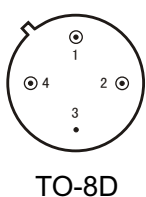
| Parameter               | Symbol         | Unit   | Guaranteed     | Typical   | Test Condition                                      |
|-------------------------|----------------|--------|----------------|-----------|-----------------------------------------------------|
| Frequency Range         | $f_L \sim f_H$ | MHz    | 4000~4700      | —         | $V_T: 0 \sim 15\text{V}$                            |
| Power Output            | $P_O$          | dBm    | $\geq 10$      | 11        | $V_T=10\text{V}$                                    |
| Power Output Variation  | $\Delta P_O$   | dB     | $\leq \pm 1.5$ | $\pm 1.0$ | $f_L=4000 \sim 4700\text{MHz}$                      |
| Tuning Voltage          | $V_T$          | V      | 0~15           | —         | —                                                   |
| Pushing                 | $K_{VC}$       | MHz/V  | —              | 6.0       | $V_{CC}=11 \sim 13\text{V}$ , $V_T=10\text{V}$      |
| Spurious                | $R_{fs}$       | dBc    | $\leq -75$     | —         | $f_L=4000 \sim 4700\text{MHz}$                      |
| Harmonics               | $R_{fn}$       | dBc    | —              | -15       | $f_L=4000 \sim 4700\text{MHz}$                      |
| SSB Phase Noise         | $S_\Phi$       | dBc/Hz | —              | -110      | $V_T=5\text{V}$ , $f_m=100\text{KHz}$               |
| Frequency Drift         | $\Delta f$     | MHz    | —              | 38        | $V_T=5\text{V}$ , $T_A: -55 \sim +85^\circ\text{C}$ |
| Current                 | $I_{CC}$       | mA     | —              | 75        | —                                                   |
| Tuning Port Capacitance | $C_T$          | pF     | —              | 45        | —                                                   |

### Typical Performance



### Absolute Ratings

Maximum DC Voltage : +15V  
Maximum Tuning Voltage : +30V  
Minimum Tuning Voltage : -0.7V  
Maximum Storage Temp: +125℃



### Application Notes

1. See assembly section for mounting information
2. ESD observe handling precautions

