

Features

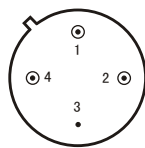
- Built-in buffer amplifier low frequency pulling
- Ultra low phase noise
- Flexible tuning design, custom frequency range
300~4700MHz available bandwidth 10~30%
- Thin film hybrid construction
- TO-8D、SMO-8D、SP-1 packages available
- Operating temperature range: -55°C~+85°C

Specifications (T_A=25°C, V_{CC}=+12V)

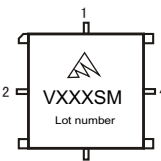
| Parameter | Symbol | Unit | Guaranteed | Typical | Test Condition |
|-------------------------|--------------------------------|--------|------------|---------|--|
| Frequency Range | f _L ~f _H | MHz | 300~350 | — | V _T : 0~15V |
| Power Output | P _o | dBm | ≥12 | 13 | V _T =5V |
| Power Output Variation | ΔP _o | dB | ≤±1.5 | ±1.0 | f _{L-H} : 300~350MHz |
| Tuning Voltage | V _T | V | 0~15 | — | — |
| Pushing | K _{VC} | MHz/V | — | 0.3 | V _{CC} =11~13V, V _T =5V |
| Spurious | R _{fs} | dBc | ≤-75 | — | f _{L-H} : 300~350MHz |
| Harmonics | R _{fn} | dBc | — | -10 | f _{L-H} : 300~350MHz |
| SSB Phase Noise | S _Φ | dBc/Hz | — | -118 | V _T =5V, f _m =10KHz |
| Frequency Drift | Δf | MHz | — | 3.0 | V _T =5V, T _A : -55~+85°C |
| Current | I _{CC} | mA | — | 65 | — |
| Tuning Port Capacitance | C _T | pF | — | 90 | — |

Absolute Ratings

- Maximum DC Voltage : +15V
- Maximum Tuning Voltage : +25V
- Minimum Tuning Voltage : -0.7V
- Maximum Storage Temp: +125°C



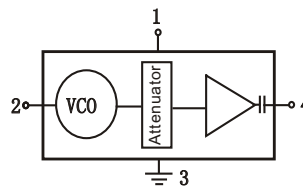
TO-8D



SMO-8D

Application Notes

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



- 1. V_{CC} 3. GND
- 2. V_T 4. P_o

Typical Performance

