

Features

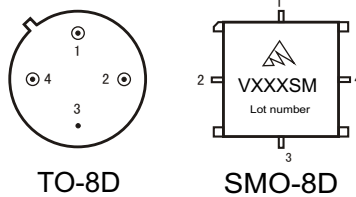
- Built-in buffer amplifier low frequency pulling
- Ultra low phase noise
- Flexible tuning design, custom frequency range
300~4700MHz available bandwidth 10~30%
- Thin film hybrid construction
- TO-8D、SMO-8D、SP-1 packages available
- Operating temperature range: -55°C~+85°C

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

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	≥ 10	11	$V_T=10\text{V}$
Power Output Variation	ΔP_o	dB	$\leq \pm 1.5$	± 1.0	$f_{L-H}=4000 \sim 4700\text{MHz}$
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	≤ -75	—	$f_{L-H}=4000 \sim 4700\text{MHz}$
Harmonics	R_{fn}	dBc	—	-15	$f_{L-H}=4000 \sim 4700\text{MHz}$
SSB Phase Noise	S_Φ	dBc/Hz	—	-110	$V_T=5\text{V}, f_m=100\text{KHz}$
Frequency Drift	Δf	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	—

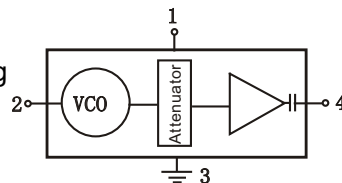
Absolute Ratings

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



Application Notes

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



- 1. Vcc 3. GND
- 2. Vt 4. Po

Typical Performance

