

Features

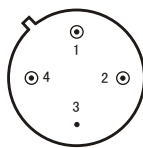
- Built-in buffer amplifier, low frequency pulling
- Low phase noise
- Custom frequency range 25~5000MHz available
- Thin film circuit High reliability
- TO-8D、SMO-8D、SP-1 packages available
- Operating temperature range: -55°C~+85°C

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

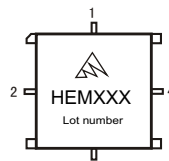
Parameter	Symbol	Unit	Guaranteed	Typical	Test Condition
Frequency Range	$f_L \sim f_H$	MHz	535~635	—	$V_T: 0 \sim 12\text{V}$
Power Output	P_o	dBm	≥ 13	14	$V_T=5\text{V}$
Power Output Variation	ΔP_o	dB	$\leq \pm 1.0$	—	$f_{L-H}: 535 \sim 635\text{MHz}$
Tuning Voltage	V_T	V	0~12	—	—
Pushing	K_{VC}	MHz/V	—	1.0	$V_{CC}=11 \sim 13\text{V}$, $V_T=5\text{V}$
Spurious	R_{fs}	dBc	≤ -70	—	$f_{L-H}: 535 \sim 635\text{MHz}$
Harmonics	R_{fn}	dBc	—	-10	$f_{L-H}: 535 \sim 635\text{MHz}$
SSB Phase Noise	S_{Φ}	dBc/Hz	—	-100	$V_T=5\text{V}$, $f_m=10\text{KHz}$
Frequency Drift	Δf	MHz	—	13	$V_T=5\text{V}$, $T_A: -55 \sim +85^{\circ}\text{C}$
Current	I_{CC}	mA	—	60	—
Tuning Port Capacitance	C_T	pF	—	90	—

Absolute Ratings

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



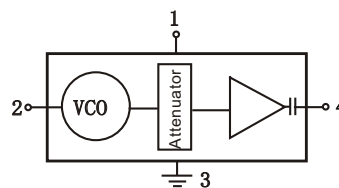
TO-8D



SMO-8D

Application Notes

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



- 1. Vcc 3. GND
- 2. V_T 4. P_o

Typical Performance

