



**Features**

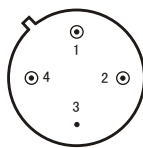
- Built-in buffer amplifier low frequency pulling
- Low phase noise
- Hyperabrupt varactor broad tuning bandwidth
- Thin film circuit high reliability
- TO-8D、SMO-8D、SP-1 packages available
- Operating temperature range: -55°C ~ +85°C

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

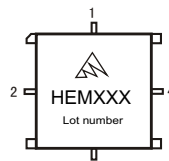
Parameter	Symbol	Unit	Guaranteed	Typical	Test Condition
Frequency Range	$f_L \sim f_H$	MHz	1500~2100	—	$V_T: 0 \sim 20\text{V}$
Power Output	$P_o$	dBm	$\geq 10$	12	$V_T=10\text{V}$
Power Output Variation	$\Delta P_o$	dB	$\leq \pm 1.5$	$\pm 1.0$	$f_{L-H}: 1500 \sim 2100\text{MHz}$
Tuning Voltage	$V_T$	V	0~20	—	—
Pushing	$K_{VC}$	MHz/V	—	2.0	$V_{CC}=11 \sim 13\text{V}, V_T=10\text{V}$
Spurious	$R_{fs}$	dBc	$\leq -70$	—	$f_{L-H}: 1500 \sim 2100\text{MHz}$
Harmonics	$R_{fn}$	dBc	—	-15	$f_{L-H}: 1500 \sim 2100\text{MHz}$
SSB Phase Noise	$S_\phi$	dBc/Hz	—	-95	$V_T=10\text{V}, f_m=10\text{KHz}$
Frequency Drift	$\Delta f$	MHz	—	35	$V_T=10\text{V}, T_A: -55 \sim +85^\circ\text{C}$
Current	$I_{CC}$	mA	—	70	—
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



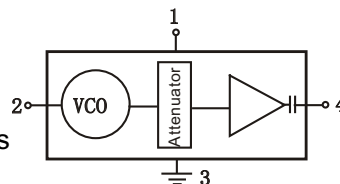
TO-8D



SMO-8D

**Application Notes**

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



- 1. V<sub>CC</sub> 3. GND
- 2. V<sub>T</sub> 4. P<sub>o</sub>

**Typical Performance**

