

**Features**

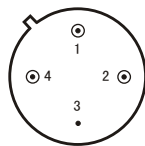
- Low phase noise
- Perfect tuning linearity 2:1
- Reliable thin film hybrid construction
- Custom frequency range 20~400MHz available
- TO-8D、SMO-8D packages available
- Operating temperature range: -55°C~+85°C

**Specifications** (T<sub>A</sub>=25°C, V<sub>CC</sub>=+12V)

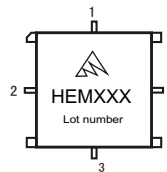
Parameter	Symbol	Unit	Guaranteed	Typical	Test Condition
Frequency Range	f <sub>L</sub> ~f <sub>H</sub>	MHz	70~140	—	V <sub>T</sub> : 0~15V
Power Output	P <sub>O</sub>	dBm	≥13	15	V <sub>T</sub> =10V
Power Output Variation	ΔP <sub>O</sub>	dB	≤±1.5	±1.0	f <sub>L-H</sub> : 70~140MHz
Tuning Voltage	V <sub>T</sub>	V	0~15	—	—
Pushing	K <sub>VC</sub>	MHz/V	—	0.5	V <sub>CC</sub> =11~13V, V <sub>T</sub> =10V
Spurious	R <sub>fs</sub>	dBc	≤-70	—	f <sub>L-H</sub> : 70~140MHz
Harmonics	R <sub>fn</sub>	dBc	—	-10	f <sub>L-H</sub> : 70~140MHz
SSB Phase Noise	S <sub>φ</sub>	dBc/Hz	—	-120	V <sub>T</sub> =10V, f <sub>m</sub> =10KHz
Frequency Drift	Δf	MHz	—	6	V <sub>T</sub> =10V, T <sub>A</sub> : -55~+85°C
Current	I <sub>CC</sub>	mA	—	30	—
Tuning Port Capacitance	C <sub>T</sub>	pF	—	400	—

**Absolute Ratings**

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



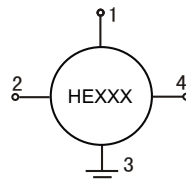
TO-8D



SMO-8D

**Application Notes**

1. This device is only an oscillator; an external buffer amplifier or isolator is required to lower the frequency pulling
2. See assembly section for mounting information
3. ESD observe handling precautions



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

**Typical Performance**

