

Features

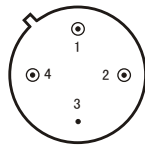
- Low phase noise
- Perfect tuning linearity 2:1
- Reliable thin film hybrid construction
- Custom frequency range 20~400MHz available
- TO-8D、SMO-8D packages available
- Operating temperature range: -55°C~+85°C

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

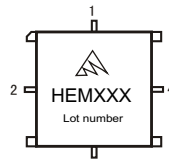
Parameter	Symbol	Unit	Guaranteed	Typical	Test Condition
Frequency Range	$f_L \sim f_H$	MHz	100~200	—	$V_T: 0 \sim 20\text{V}$
Power Output	P_o	dBm	≥ 13	15	$V_T=10\text{V}$
Power Output Variation	ΔP_o	dB	$\leq \pm 1.5$	± 1.0	$f_{L-H}: 100 \sim 200\text{MHz}$
Tuning Voltage	V_T	V	0~20	—	—
Pushing	K_{VC}	Mhz/V	—	0.5	$V_{CC}=11 \sim 13\text{V}, V_T=10\text{V}$
Spurious	R_{fs}	dBc	≤ -70	—	$f_{L-H}: 100 \sim 200\text{MHz}$
Harmonics	R_{fn}	dBc	—	-10	$f_{L-H}: 100 \sim 200\text{MHz}$
SSB Phase Noise	S_ϕ	dBc/Hz	—	-115	$V_T=10\text{V}, f_m=10\text{KHz}$
Frequency Drift	Δf	MHz	—	6	$V_T=10\text{V}, T_A: -55 \sim +85^\circ\text{C}$
Current	I_{CC}	mA	—	30	—
Tuning Port Capacitance	C_T	pF	—	400	—

Absolute Ratings

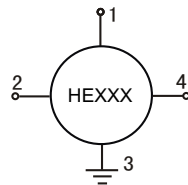
- Maximum DC Voltage : +15V
- Maximum Tuning Voltage : +30V
- Minimum Tuning Voltage : -0.7V
- Maximum Storage Temp: +125°C



TO-8D



SMO-8D



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

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
4. Equivalent to HV27T-11 of Magnum

Typical Performance

