

Features

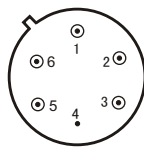
- Built-in buffer amplifier low frequency pulling
- Dual output flexible tuning design
- Perfect tuning linearity thin film hybrid construction
- TO-8E、SMO-8E、SP-1 package
- Operating temperature range: -55°C ~ +85°C

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

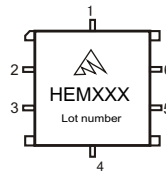
Parameter	Symbol	Unit	Guaranteed	Typical	Test Condition
Primary Frequency Range	$f_L \sim f_H$	MHz	1300~1600	—	$V_{T1}: 0 \sim 15\text{V}$
Fine Frequency Range	—	MHz	—	15	$V_{T2}: 0 \sim 10\text{V}$
Main Output	P_{o1}	dBm	≥ 13	—	$V_{T1}=10\text{V}, V_{T2}=5\text{V}$
Aux Output	P_{o2}	dBm	—	0	—
Power Output Variation	ΔP_o	dB	—	3.0	$f_{L-H}: 1300 \sim 1600\text{MHz}$
Primary Tuning Voltage	V_{T1}	V	0~15	—	—
Fine Tuning Voltage	V_{T2}	V	0~10	—	—
Pushing	K_{VC}	MHz/V	—	2.0	$V_{CC}=11 \sim 13\text{V}, V_{T1}=10\text{V}, V_{T2}=5\text{V}$
Spurious	R_{fs}	dBc	≤ -70	—	$f_{L-H}: 1300 \sim 1600\text{MHz}$
Harmonics	R_{fn}	dBc	—	-20	$f_{L-H}: 1300 \sim 1600\text{MHz}$
SSB Phase Noise	S_{ϕ}	dBc/Hz	—	-95	$V_{T1}=10\text{V}, V_{T2}=5\text{V}, f_m=10\text{KHz}$
Frequency Drift	Δf	MHz	—	30	$V_{T1}=10\text{V}, V_{T2}=5\text{V}, T_A: -55 \sim +85^{\circ}\text{C}$
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



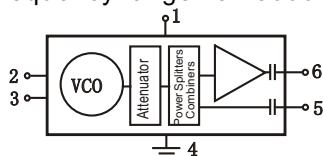
TO-8E



SMO-8E

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. Specified specification available within frequency range 25~5000MHz



- 1. Vcc
- 2. VT2
- 3. VT1
- 4. GND
- 5. Po2
- 6. Po1

Typical Performance

