

Features

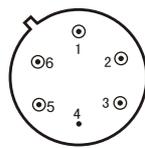
- Built-in buffer amplifier low frequency pulling
- Dual output flexible tuning design
- Perfect tuning linearity thin film hybrid construction
- TO-8E、SMO-8E、SP-1 package
- Operating temperature range: -55°C ~ +85°C

Specifications (T_A=25°C, V_{CC}=+12V)

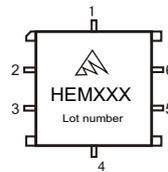
Parameter	Symbol	Unit	Guaranteed	Typical	Test Condition
Frequency Range	f _L ~f _H	MHz	1800~1950	—	V _T : 0~15V
Main Output	P _{O1}	dBm	≥13	—	—
Aux Output	P _{O2}	dBm	—	0	V _T =5V
Power Output Variation	ΔP _O	dB	≤±1.5	±1.0	f _{L-H} : 1800 ~ 1950MHz
Tuning Voltage	V _T	V	0~15	—	—
Pushing	K _{VC}	MHz/V	—	3.0	V _{CC} =11~13V, V _T =5V
Spurious	R _{fs}	dBc	≤-70	—	f _{L-H} : 1800 ~ 1950MHz
Harmonics	R _{fn}	dBc	-20	-25	f _{L-H} : 1800 ~ 1950MHz
SSB Phase Noise	S _Φ	dBc/Hz	—	-95	V _T =5V, f _m =10KHz
Frequency Drift	Δf	MHz	—	35	V _T =5V, T _A : -55~+85°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



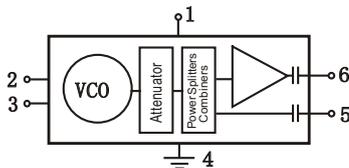
TO-8E



SMO-8E

Application Notes

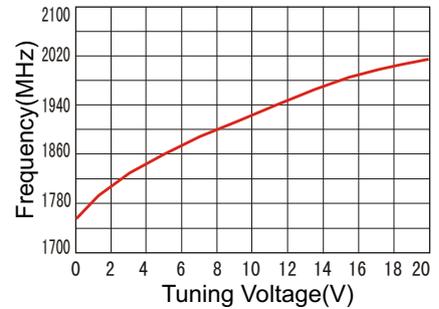
1. This device is only an oscillator; an external buffer amplifier or isolator is required to lower the frequency pulling
2. See assembly section for mounting information
3. ESD observe handling precautions
4. Pin 2 can be used as another tuning port if necessary



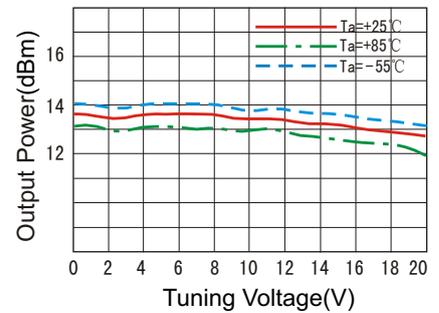
- 1. V_{CC} 4. GND
- 2. GND 5. P_{O2}
- 3. V_T 6. P_{O1}

Typical Performance

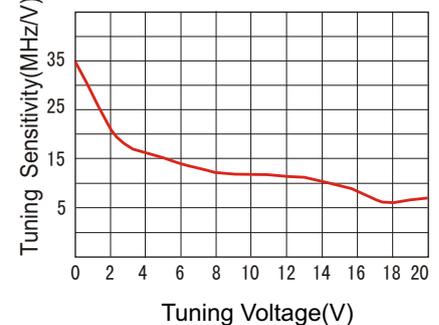
Frequency vs Tuning Voltage



Power Output vs Tuning Voltage



Tuning Sensitivity vs Tuning Voltage



Phase Noise vs Offset Frequency

