

**Features**

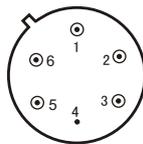
- Built-in buffer amplifier low frequency pulling
- Dual output flexible tuning design
- Perfect tuning linearity thin film hybrid construction
- TO-8E、SMO-8E、SP-1 package
- Operating temperature range: -55°C ~ +85°C

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

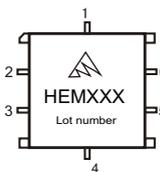
Parameter	Symbol	Unit	Guaranteed	Typical	Test Condition
Primary Frequency Range	f <sub>L</sub> ~f <sub>H</sub>	MHz	2300~2600	—	V <sub>T1</sub> : 0~15V
Fine Frequency Range	—	MHz	—	20	V <sub>T2</sub> : 0~10V
Main Output	P <sub>o1</sub>	dBm	≥10	12	V <sub>T1</sub> =10V V <sub>T2</sub> =5V
Aux Output	P <sub>o2</sub>	dBm	—	0	—
Power Output Variation	ΔP <sub>o</sub>	dB	—	3.0	f <sub>L-H</sub> : 2300 ~ 2600MHz
Primary Tuning Voltage	V <sub>T1</sub>	V	0~15	—	—
Fine Tuning Voltage	V <sub>T2</sub>	V	0~10	—	—
Pushing	K <sub>VC</sub>	MHz/V	—	3.0	V <sub>CC</sub> =11~13V, V <sub>T1</sub> =10V, V <sub>T2</sub> =5V
Spurious	R <sub>fs</sub>	dBc	≤-70	—	f <sub>L-H</sub> : 2300 ~ 2600MHz
Harmonics	R <sub>fm</sub>	dBc	—	-30	f <sub>L-H</sub> : 2300 ~ 2600MHz
SSB Phase Noise	S <sub>Φ</sub>	dBc/Hz	—	-90	V <sub>T1</sub> =10V, V <sub>T2</sub> =5V, f <sub>m</sub> =10KHz
Frequency Drift	Δf	MHz	—	50	V <sub>T1</sub> =10V, V <sub>T2</sub> =5V, T <sub>A</sub> : -55~+85°C
Current	I <sub>CC</sub>	mA	—	70	—
Tuning Port Capacitance	C <sub>T</sub>	pF	—	90	—

**Absolute Ratings**

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



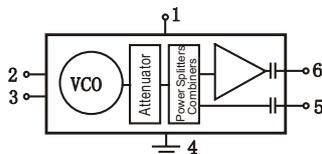
TO-8E



SMO-8E

**Application Notes**

1. Pin 5 should be connected 50Ω load
2. See assembly section for mounting information
3. ESD observe handling precautions
4. Specified specification available within frequency range 25~5000MHz



- 1. V<sub>CC</sub> 4. GND
- 2. V<sub>T2</sub> 5. Po2
- 3. V<sub>T1</sub> 6. Po1

**Typical Performance**

