

**Features**

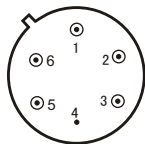
- Built-in buffer amplifier low frequency pulling
- Dual output flexible tuning design
- Perfect tuning linearity thin film hybrid construction
- TO-8E、SMO-8E、SP-1 package
- Operating temperature range: -55°C ~ +85°C

**Specifications** (TA=25°C, VCC=+12V)

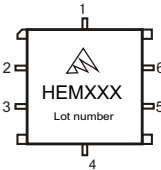
Parameter	Symbol	Unit	Guaranteed	Typical	Test Condition
Frequency Range	$f_L \sim f_H$	MHz	2200~2600	—	$V_T: 0 \sim 18V$
Main Output	$P_{O1}$	dBm	$\geq 10$	12	—
Aux Output	$P_{O2}$	dBm	—	0	$V_T=10V$
Power Output Variation	$\Delta P_o$	dB	$\leq \pm 1.5$	$\pm 1.0$	$f_{L-H}: 2200 \sim 2600MHz$
Tuning Voltage	$V_T$	V	0~18	—	—
Pushing	$K_{VC}$	MHz/V	—	3.0	$V_{CC}=11 \sim 13V, V_T=10V$
Spurious	$R_{fs}$	dBc	$\leq -70$	—	$f_{L-H}: 2200 \sim 2600MHz$
Harmonics	$R_{fn}$	dBc	—	-25	$f_{L-H}: 2200 \sim 2600MHz$
SSB Phase Noise	$S_{\phi}$	dBc/Hz	—	-90	$V_T=10V, f_m=10KHz$
Frequency Drift	$\Delta f$	MHz	—	40	$V_T=10V, T_A: -55 \sim +85^\circ C$
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



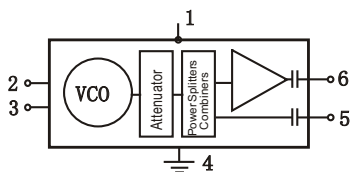
TO-8E



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. VCC 4. GND
- 2. GND 5. Po2
- 3. VT 6. Po1

**Typical Performance**

