

#### **BOWEI INTEGRATED CIRCUITS CO.,LTD.**



#### **Features**

- Low phase noise
- Hyperabrupt varactor octave bandwidth
- Perfect tuning linearity
- Reliable thin film hybrid construction
- ●TO-8C、SMO-8C、SP-1 packages available
- Operating temperature range: -55 °C ~+85 °C

# Specifications(TA=25°C,Vcc=+12V)

Parameter	Symbol	Unit	Guaranteed	Typical	Test Condition
Frequency Range	$f_{\scriptscriptstyle L}{\sim}f_{\scriptscriptstyle H}$	MHz	800~1600	_	V <sub>⊤</sub> :0~20V
Power Output	Po	dBm	≥13	14	V <sub>T</sub> =10V
Power Output Variation	△P₀	dB	≤±1.5	_	f <sub>L-H</sub> :800 ~ 1600MHz
Tuning Voltage	V <sub>T</sub>	V	0∼20	_	_
Pushing	K <sub>vc</sub>	MHz/V	-	2. 0	$V_{cc}$ =11 $\sim$ 13V, $V_{\tau}$ =10V
Spurious	R <sub>fs</sub>	dBc	≤-70	_	f <sub>L-H</sub> :800 ~ 1600MHz
Harmonics	R <sub>fn</sub>	dBc	-	-10	f <sub>L-H</sub> :800 ~ 1600MHz
SSB Phase Noise	S⊕	dBc/Hz	_	-100	$V_T = 10V$ , $f_m = 10KHz$
Frequency Drift	△f	MHz	_	22	V <sub>T</sub> =10V, T <sub>A</sub> :-55∼+85℃
Current	I <sub>cc</sub>	mA	_	30	_
Tuning Port Capacitance	C <sub>T</sub>	pF	_	150	_

### **Absolute Ratings**

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

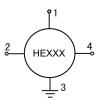


A HEMXXX SMO-8C

# TO-8C

#### **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 handing precautions
- 4. Equivalent to VTO-8090 of HP



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

## **Typical Performance**

