



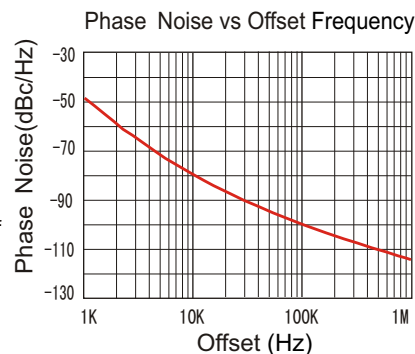
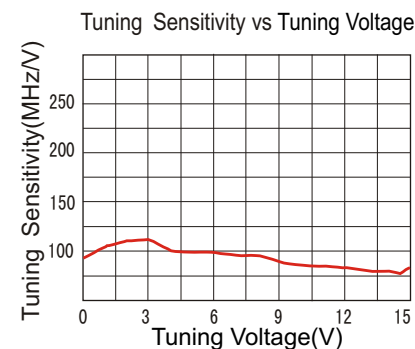
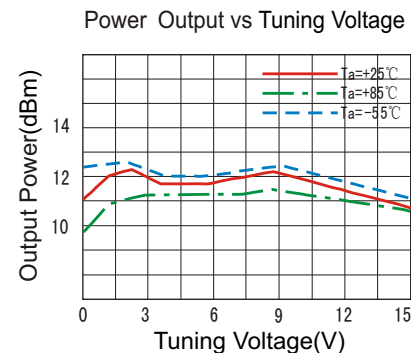
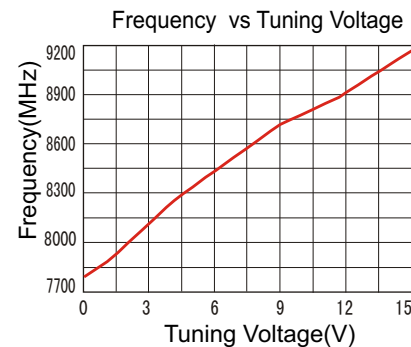
Features

- Built-in buffer amplifier low frequency pulling
- Low phase noise
- Hyperabrupt varactor broad tuning bandwidth
- Thin film hybrid construction
- TO-8D、SMO-8D、SP-1、SP-3 packages available
- Operating temperature range: $-55^{\circ}\text{C} \sim +85^{\circ}\text{C}$

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

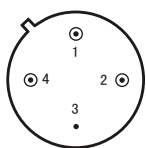
Parameter	Symbol	Unit	Guaranteed	Typical	Test Condition
Frequency Range	$f_L \sim f_H$	MHz	8000~9000	—	$V_T: 0 \sim 15\text{V}$
Power Output	P_o	dBm	≥ 10	11	$V_T=5\text{V}$
Power Output Variation	ΔP_o	dB	$\leq \pm 1.5$	—	$f_{L-H}: 8000 \sim 9000\text{MHz}$
Tuning Voltage	V_T	V	0~15	—	—
Pushing	K_{VC}	MHz/V	—	15	$V_{CC}=11 \sim 13\text{V}$, $V_T=5\text{V}$
Spurious	R_{fs}	dBc	≤ -60	—	$f_{L-H}: 8000 \sim 9000\text{MHz}$
Harmonics	R_{fn}	dBc	—	-20	$f_{L-H}: 8000 \sim 9000\text{MHz}$
SSB Phase Noise	S_{Φ}	dBc/Hz	—	-100	$V_T=5\text{V}$, $f_m=100\text{KHz}$
Frequency Drift	Δf	MHz	—	180	$V_T=5\text{V}$, $T_A: -55 \sim +85^{\circ}\text{C}$
Current	I_{CC}	mA	—	85	—
Tuning Port Capacitance	C_T	pF	—	45	—

Typical Performance

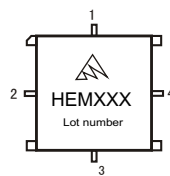


Absolute Ratings

Maximum DC Voltage : +15V
Maximum Tuning Voltage : +24V
Minimum Tuning Voltage : -0.7V
Maximum Storage Temp: +125°C



TO-8D



SMO-8D

Application Notes

1. Isolator is required for high frequency
2. See assembly section for mounting information
3. ESD observe handling precautions

