SPECIFICATION

COMMERCIALLY AVAILABLE

ITEM: VOLTAGE CONTROL OSCILLATOR

PART NUMBER: ON-205

Release Date: February 2, 2010

Prepared By:

Revised By:

Revised Date:

Revision Made:

ISSUED	CHECKED	CHECKED	CHECKED	APPROVED
	02/09/2010 SRJ	02/09/2010 BF	06/09/2010 GL	

***FILTRO**NETICS Inc*

1. Features:

- ●Low phase noise
- ●Hyperabrupt varactor broad tuning bandwith
- ●Perfect tuning linearity
- ●Reliable thin film hybrid construction
- ●TO-8C、SMO-8C、SP-1、SP-3 packages available
- ●Operating temperature range：-55℃～+85℃

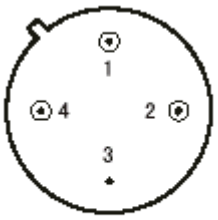
2. Application Notes:

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-8360 of HP

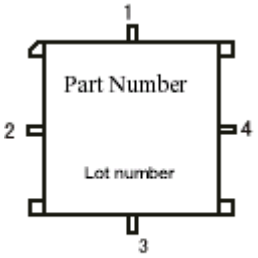
2. Electrical Specifications:

Parameter	Symbol	Unit	Guaranteed	Typical	Test Condition
Frequency Range	$f_L \sim f_H$	MHz	3700～4200	–	V_T: 0～15V
Power Output	P_O	dBm	⩾10	12	V_T=5V
Power Output Variation	$\triangle P_O$	dB	⩽±1. 5	±1. 0	•...•••••••••••••
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	–	•...•••••••••••••
Harmonics	R_{fn}	dBc	–	-20	•...•••••••••••••
SSB Phase Noise	S_Φ	dBc/Hz	–	-87	V_T=5V, f_m=10KHz
Frequency Drift	$\triangle f$	MHz	–	50	V_T=5V, T_A: -55～+85℃
Current	I_{CC}	mA	–	30	–
Tuning Port Capacitance	C_T	pF	–	45	–

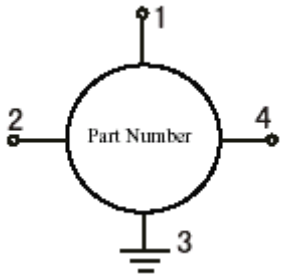
3. Mechanical Package:



TO-8C



SMO-8C



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

Absolute Rating:

Maximum DC Voltage : +15V
Maximum Tuning Voltage : +30V
Minimum Tuning Voltage : -0. 7V
Maximum Storage Temp:+125℃

4. Typical Performance: