

Voltage Controlled Oscillator

RSO2660AH

Ultra Noise Noise 2612 to 2660 MHz

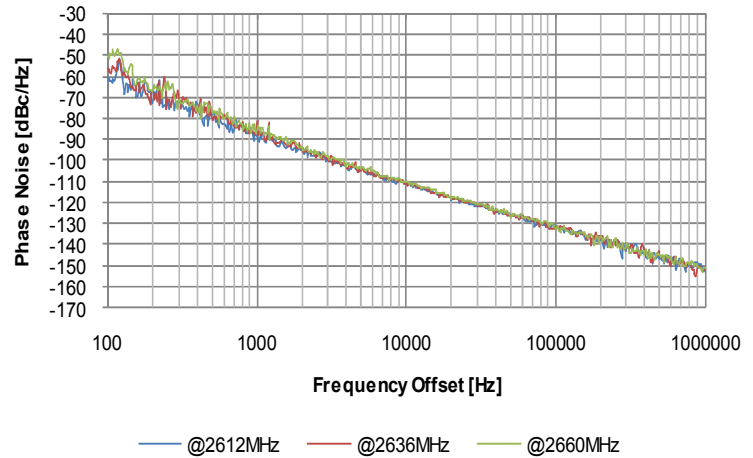
Rev. A

Features

- Ultra low noise
- Linear tuning characteristics
- Low pushing / Low pulling

Applications

- MMDS
- Wireless Communication
- SATCOM Radio Link

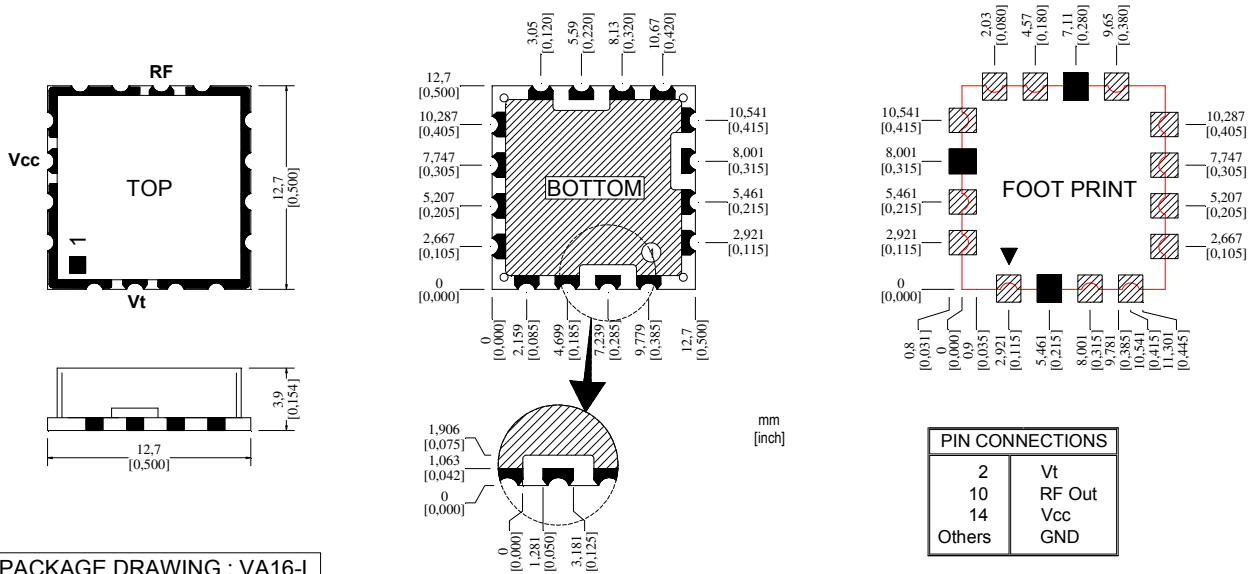


Electrical Characteristics



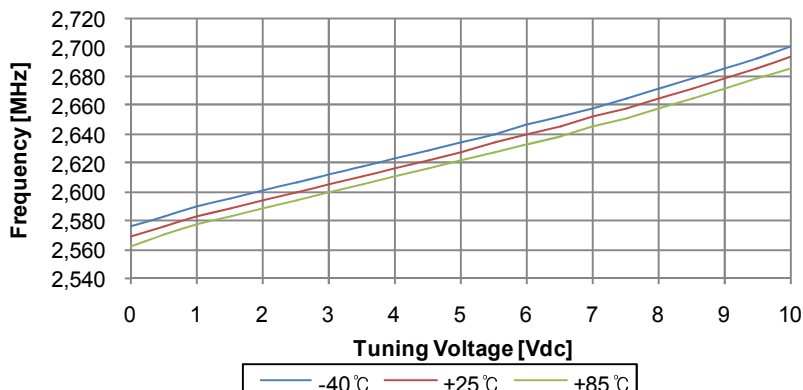
Parameter	Units	Min	Typ	Max
Operating Frequency Range	MHz	2612		2660
Output Power	dBm	+3.0	+5.0	
Output Impedance	Ω		50	
Phase Noise	@10kHz offset		-111	-107
	@100kHz offset		-132	-127
Tuning Voltage (Vt)	Vdc	+1.5		+8.5
Tuning Voltage Sensitivity (Kv)	MHz/V		10 - 13	
2nd Harmonic Suppression	dBc		-22	
Power Supply (Vcc)	Voltage		Vdc	10
	Current		mA	25
Pushing Figure	MHz/V		2	
Pulling Figure	MHz		10	
Input Capacitance	pF		33	
Operating Temp. Range	$^{\circ}\text{C}$	-40		+85

Dimensions

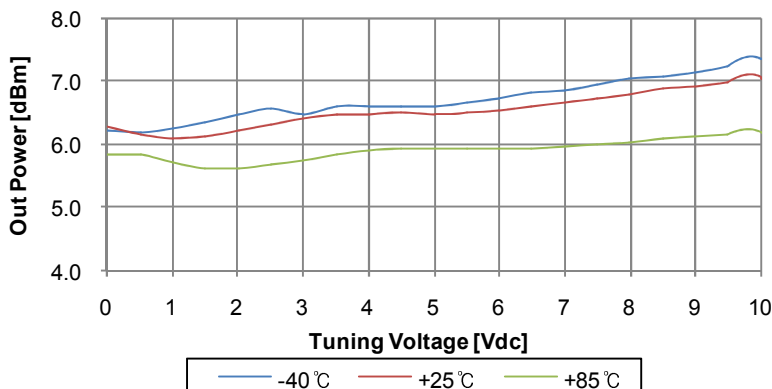


PACKAGE DRAWING : VA16-L

Tuning Curve



Output Power Curve



Performance Data

Vt [Vdc]	Frequency [MHz]			Kv [MHz/V]			Output Power [dBm]			2nd Harmonic [dBc]
	+25°C	+85°C	-40°C	+25°C	+85°C	-40°C	+25°C	+85°C	-40°C	
0.0	2568.3	2562.2	2575.4	-	-	-	6.3	5.8	6.2	-24.1
0.5	2575.7	2569.7	2582.6	15.0	15.1	14.3	6.2	5.8	6.2	-23.1
1.0	2582.3	2576.4	2589.0	13.2	13.3	12.8	6.1	5.7	6.3	-23.5
1.5	2588.4	2582.3	2594.9	12.0	11.9	11.9	6.1	5.6	6.4	-23.2
2.0	2594.1	2588.0	2600.8	11.5	11.4	11.6	6.2	5.6	6.5	-23.1
2.5	2599.7	2593.6	2606.4	11.3	11.1	11.3	6.3	5.7	6.6	-22.9
3.0	2605.2	2599.0	2611.6	11.0	10.9	10.4	6.4	5.7	6.5	-22.6
3.5	2610.9	2604.5	2617.5	11.3	10.9	11.9	6.5	5.8	6.6	-22.3
4.0	2616.4	2610.0	2623.0	11.0	11.0	11.0	6.5	5.9	6.6	-22.4
4.5	2622.0	2615.5	2628.7	11.3	11.0	11.4	6.5	5.9	6.6	-22.3
5.0	2627.7	2621.1	2634.4	11.4	11.3	11.4	6.5	5.9	6.6	-22.4
5.5	2633.5	2626.8	2640.2	11.5	11.4	11.5	6.5	5.9	6.7	-22.5
6.0	2639.4	2632.6	2646.1	11.8	11.6	11.9	6.5	5.9	6.7	-23.1
6.5	2645.4	2638.6	2652.2	12.0	11.9	12.0	6.6	5.9	6.8	-23.2
7.0	2651.6	2644.7	2658.4	12.4	12.2	12.5	6.7	6.0	6.9	-22.3
7.5	2658.0	2650.9	2665.0	12.8	12.5	13.1	6.7	6.0	6.9	-21.8
8.0	2664.6	2657.4	2671.6	13.3	12.9	13.3	6.8	6.0	7.0	-21.7
8.5	2671.5	2664.1	2678.5	13.7	13.4	13.8	6.9	6.1	7.1	-22.5
9.0	2678.6	2671.1	2685.8	14.2	14.0	14.6	6.9	6.1	7.1	-23.5
9.5	2686.0	2678.4	2693.2	14.7	14.6	14.8	7.0	6.2	7.2	-23.1
10.0	2693.6	2686.0	2701.0	15.4	15.1	15.5	7.1	6.2	7.4	-24.0