

Voltage Controlled Oscillator

ROS-300R+

Typical Performance Data

V TUNE	TUNE SENS (MHz/V)	FREQUENCY (MHz)			POWER OUTPUT (dBm)			HARMONICS (dBc)			FREQ. PUSH (MHz/V)	FREQ OFFSET (kHz)	PHASE NOISE (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C	F2	F3	F4			
0.00	10.7	114.0	111.6	109.7	7.7	7.1	6.2	-21.0	-44.7	-40.9	0.19	1	-80
0.50	12.1	118.7	116.9	115.6	8.8	8.8	8.3	-23.2	-68.7	-44.2	0.04	10	-102
1.00	11.0	124.3	122.9	121.9	9.0	9.1	8.8	-27.4	-47.1	-45.5	0.42	100	-122
1.50	10.2	130.0	128.4	127.4	9.2	9.3	9.1	-27.6	-44.4	-45.3	0.30	1000	-142
2.00	9.3	135.1	133.6	132.3	9.3	9.5	9.2	-29.6	-44.6	-46.3	0.20		
2.50	9.7	140.0	138.2	137.1	9.4	9.6	9.3	-28.5	-42.3	-46.0	0.19		
3.00	9.6	144.8	143.1	141.7	9.5	9.7	9.5	-27.8	-41.7	-46.3	0.12		
3.50	9.9	149.6	147.8	146.4	9.5	9.8	9.6	-27.2	-41.1	-46.7	0.09		
4.00	10.4	154.8	152.8	151.3	9.6	9.9	9.7	-26.8	-41.1	-47.1	0.03		
4.50	11.5	160.1	158.0	156.4	9.7	9.9	9.7	-26.9	-40.6	-46.3	0.04		
5.00	11.5	165.8	163.7	161.9	9.7	10.0	9.8	-26.6	-40.6	-46.4	0.03		
5.50	13.6	172.0	169.5	168.0	9.8	10.0	9.8	-26.6	-40.1	-45.9	0.02		
6.00	13.7	178.2	176.3	174.4	9.7	10.0	9.9	-26.7	-40.0	-45.3	0.01		
6.50	14.0	185.5	183.1	181.0	9.6	10.0	9.9	-27.4	-40.2	-46.9	0.08		
7.00	15.8	192.4	190.2	188.5	9.6	10.1	9.9	-28.0	-39.2	-45.9	0.12		
7.50	15.4	200.3	198.1	195.9	9.6	10.0	9.9	-28.1	-38.8	-45.6	0.13		
8.00	16.8	208.3	205.7	203.9	9.5	9.9	9.7	-28.6	-39.0	-46.4	0.22		
8.50	17.5	216.5	214.2	212.4	9.2	9.7	9.6	-28.7	-39.6	-45.2	0.41		
9.00	16.7	225.5	222.9	220.8	9.0	9.6	9.5	-29.6	-39.6	-44.5	0.43		
9.50	16.4	233.9	231.2	229.0	8.9	9.5	9.4	-30.6	-39.5	-44.7	0.40		
10.00	17.5	241.9	239.4	237.6	8.7	9.3	9.3	-30.8	-39.9	-46.5	0.67		
10.50	16.6	250.9	248.2	246.1	8.6	9.2	9.2	-30.8	-39.5	-46.4	0.73		
11.00	15.2	259.3	256.5	254.2	8.4	9.0	9.1	-30.0	-39.3	-45.8	0.64		
11.50	15.5	266.6	264.0	262.1	8.2	8.8	8.8	-28.4	-40.2	-45.5	0.67		
12.00	15.9	274.4	271.8	270.0	7.8	8.5	8.6	-27.2	-40.8	-47.3	1.05		
12.50	14.6	282.9	279.7	277.7	7.6	8.2	8.3	-27.0	-40.0	-51.1	1.05		
13.00	12.8	290.5	287.0	284.8	7.4	8.1	8.2	-26.7	-39.6	-51.2	0.88		
13.50	11.2	296.8	293.5	291.1	7.3	8.0	8.1	-25.3	-39.8	-47.3	0.70		
14.00	10.1	302.3	299.1	296.9	7.2	7.8	7.9	-24.8	-40.4	-45.1	0.59		
14.50	9.7	306.9	304.1	302.2	7.1	7.7	7.8	-24.5	-41.2	-43.7	0.65		
15.00	9.4	311.4	308.9	307.3	6.9	7.5	7.6	-24.3	-42.6	-43.0	0.80		
15.50	8.9	316.0	313.7	312.1	6.7	7.3	7.5	-24.1	-43.6	-42.6	0.82		
16.00	8.2	320.4	318.1	316.5	6.6	7.2	7.4	-24.0	-44.4	-43.0	0.76		
16.50	7.5	324.5	322.2	320.6	6.6	7.2	7.3	-23.8	-44.0	-43.2	0.68		
17.00	6.9	328.4	325.9	324.3	6.5	7.1	7.2	-23.6	-44.2	-43.2	0.60		
17.50	6.3	331.8	329.4	327.7	6.5	7.1	7.2	-23.3	-44.3	-43.3	0.54		
18.00	6.3	335.0	332.5	330.9	6.5	7.0	7.2	-23.0	-44.1	-44.0	0.49		

Notes

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