

# Voltage Controlled Oscillator

# ROS-1590-319+

## 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	19.50	1554.8	1549.0	1540.4	-0.67	0.05	-0.52	-23.7	-39.0	-48.9	0.01	1	-87
0.25	17.91	1559.5	1553.9	1545.6	-0.59	0.13	-0.45	-23.6	-38.8	-48.1	0.11	10	-113
0.50	17.10	1563.8	1558.4	1550.2	-0.53	0.19	-0.39	-23.5	-38.5	-47.1	0.18	100	-133
0.75	16.68	1568.1	1562.6	1554.6	-0.49	0.24	-0.32	-23.4	-38.6	-46.8	0.24	1000	-153
1.00	16.53	1572.3	1566.8	1558.8	-0.46	0.28	-0.27	-23.3	-39.0	-48.7	0.30		
1.25	16.54	1576.4	1570.9	1563.0	-0.43	0.31	-0.22	-23.3	-39.0	-49.0	0.36		
1.50	16.69	1580.6	1575.1	1567.1	-0.39	0.33	-0.18	-23.3	-38.9	-48.2	0.42		
1.75	16.90	1584.9	1579.2	1571.3	-0.37	0.36	-0.15	-23.0	-38.7	-47.7	0.47		
2.00	17.19	1589.2	1583.5	1575.5	-0.35	0.38	-0.13	-22.8	-38.3	-46.5	0.54		
2.25	17.46	1593.5	1587.8	1579.8	-0.33	0.40	-0.09	-22.6	-37.9	-46.9	0.60		
2.50	17.75	1598.0	1592.1	1584.2	-0.31	0.41	-0.06	-22.6	-37.6	-46.9	0.65		
2.75	17.97	1602.5	1596.6	1588.7	-0.28	0.42	-0.03	-22.5	-37.5	-47.1	0.70		
3.00	18.19	1607.1	1601.1	1593.2	-0.24	0.43	-0.01	-22.2	-37.5	-47.7	0.75		
3.25	18.33	1611.7	1605.6	1597.7	-0.20	0.45	0.00	-21.9	-37.6	-47.2	0.79		
3.50	18.40	1616.3	1610.2	1602.4	-0.16	0.48	0.03	-21.6	-37.6	-46.4	0.82		
3.75	18.39	1621.0	1614.8	1607.0	-0.12	0.50	0.08	-21.4	-37.1	-45.3	0.85		
3.90	18.36	1623.7	1617.5	1609.8	-0.10	0.51	0.10	-21.4	-36.8	-46.4	0.86		
4.25	18.21	1630.2	1624.0	1616.3	-0.04	0.53	0.16	-21.2	-36.1	-47.8	0.89		
4.50	18.04	1634.8	1628.5	1621.0	-0.01	0.54	0.20	-21.3	-35.9	-47.2	0.90		
4.75	17.80	1639.3	1633.0	1625.5	0.02	0.55	0.24	-21.5	-36.0	-46.2	0.92		
5.00	17.55	1643.8	1637.5	1630.1	0.05	0.56	0.28	-21.4	-35.9	-44.9	0.93		
5.25	17.24	1648.2	1641.9	1634.6	0.08	0.56	0.32	-21.1	-36.0	-45.8	0.94		
5.50	16.95	1652.6	1646.2	1639.0	0.11	0.56	0.35	-20.8	-35.6	-45.5	0.96		
5.75	16.62	1656.8	1650.4	1643.3	0.13	0.56	0.38	-20.6	-35.2	-45.2	0.97		
6.00	16.30	1661.0	1654.6	1647.6	0.16	0.54	0.41	-20.4	-34.5	-44.5	0.99		

REV. X1

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