

Surface Mount

Voltage Controlled Oscillator

ROS-1624+

Linear Tuning 1400 to 1624 MHz

Features

- linear tuning characteristics
- low phase noise
- low pushing
- aqueous washable



CASE STYLE: CK605
PRICE: \$ 15.95 ea. QTY (5-49)

Applications

- wireless communications
- WiMAX

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

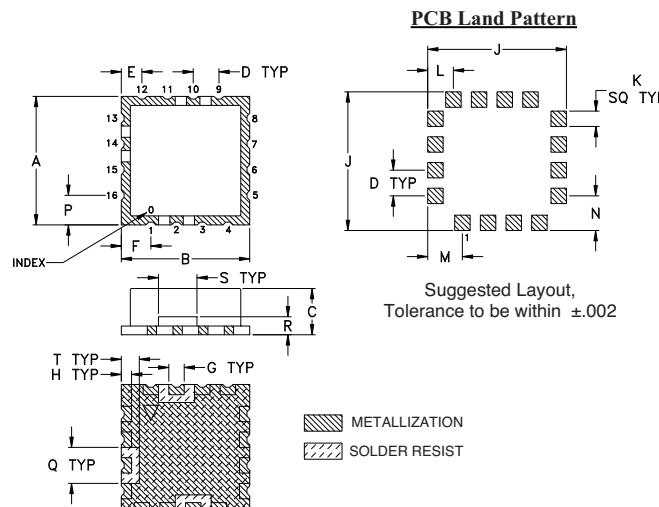
Electrical Specifications

MODEL NO.	FREQ. (MHz)	POWER OUTPUT (dBm)	PHASE NOISE dBc/Hz SSB at offset frequencies,kHz	TUNING						NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)	PULLING pk-pk @12 dBr (MHz)	PUSHING (MHz/V)	DC OPERATING POWER Vcc Current (volts) (mA)	
				VOLTAGE RANGE	SENSITIVITY	PORT CAP	3 dB MODULATION BANDWIDTH	(V)	(MHz/V)	(pF)	(MHz)				
ROS-1624+	1400 1624	+1	-78 -103 -124 -144	0.5	9.5	29-35	39	40				-90	-18	-10	1.5 1.2
				Min. Max.	Typ.	1 10 100 1000		Typ.	Typ.	Typ.	Typ.	Typ.	Typ.	Typ.	5 40

Pin Connections

RF OUT	10
VCC	14
V-TUNE	2
GROUND	1,3,4,5,6,7,8,9,11,12,13,15,16

Outline Drawing



Outline Dimensions (inch mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	wt.
.500	.500	.180	.100	.080	.115	.060	.040	.540	.060	.100	.135	.135	.115	.140	.070	.150	.070	grams 12.70 12.70 4.57 2.54 2.03 2.92 1.52 1.02 13.72 1.52 2.54 3.43 3.43 2.92 3.56 1.78 3.81 1.78 1.0

Notes

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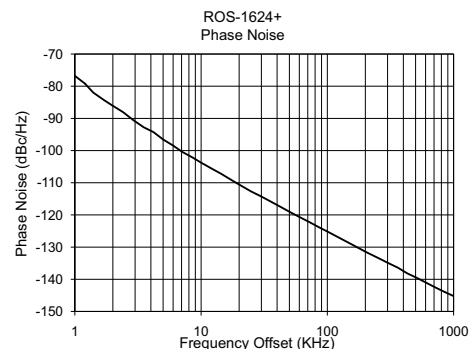
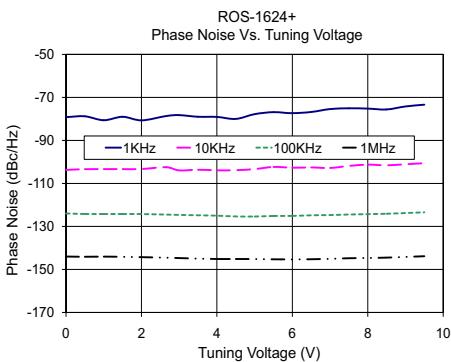
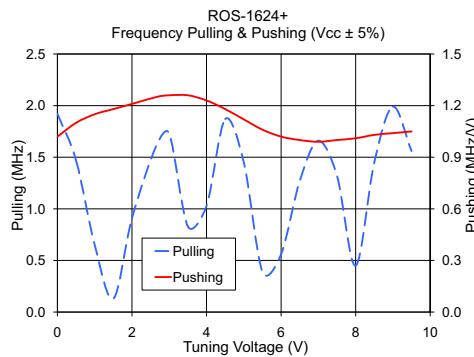
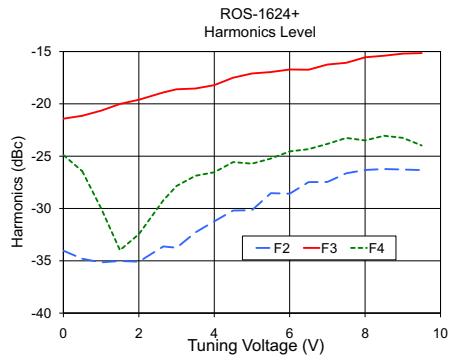
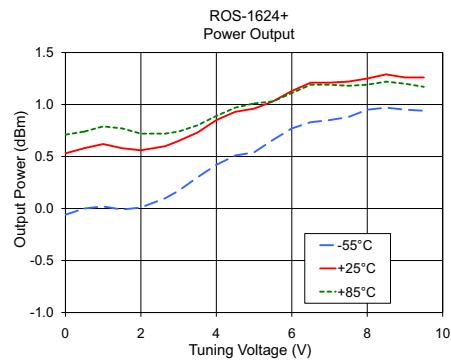
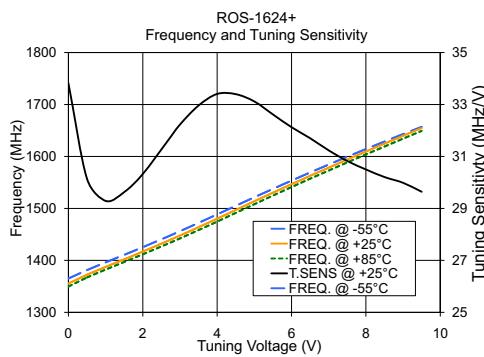
www.minicircuits.com P.O. Box 35166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

Performance Data & Curves*

ROS-1624+

V TUNE	TUNE SENS (MHz/V)	FREQUENCY (MHz)			POWER OUTPUT (dBm)			Icc (mA)	HARMONICS (dBc)			FREQ. PUSH (MHz/V)	FREQ. PULL (MHz)	PHASE NOISE (dBc/Hz) at offsets				FREQ OFFSET (KHz)	PHASE NOISE at 1512 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	33.83	1365.1	1355.5	1349.6	-0.06	0.53	0.71	26.64	-34.0	-21.4	-24.9	1.02	1.92	-79.18	-103.7	-124.0	-144.0	1.0	-76.80
0.50	30.15	1381.3	1372.4	1367.2	0.00	0.58	0.74	26.72	-34.8	-21.1	-26.4	1.10	1.47	-78.77	-103.4	-124.2	-144.1	2.0	-86.12
1.00	29.29	1396.2	1387.5	1382.3	0.02	0.62	0.79	26.79	-35.2	-20.7	-30.0	1.15	0.65	-80.62	-103.3	-124.2	-144.0	3.5	-92.75
1.50	29.63	1410.7	1402.1	1397.0	-0.01	0.58	0.77	26.87	-35.0	-20.0	-34.0	1.18	0.13	-79.00	-103.3	-124.2	-144.1	6.0	-98.45
2.00	30.32	1425.4	1416.9	1411.7	0.01	0.56	0.72	26.99	-35.1	-19.6	-32.5	1.21	0.91	-80.66	-103.3	-124.2	-144.3	8.5	-102.09
2.65	31.56	1445.2	1436.8	1431.4	0.10	0.60	0.72	27.16	-33.6	-18.9	-29.2	1.25	1.61	-78.66	-102.5	-124.5	-144.5	10.0	-103.76
3.00	32.23	1456.1	1447.7	1442.3	0.17	0.65	0.74	27.26	-33.8	-18.6	-27.9	1.26	1.73	-78.24	-103.9	-124.6	-144.7	20.8	-110.94
3.50	32.96	1472.2	1463.8	1458.3	0.30	0.73	0.80	27.40	-32.3	-18.5	-26.9	1.26	0.83	-78.99	-103.6	-124.8	-145.0	35.5	-115.81
4.00	33.41	1488.5	1480.3	1474.7	0.42	0.85	0.89	27.53	-31.2	-18.2	-26.5	1.23	1.03	-79.07	-103.9	-125.0	-145.1	60.7	-120.72
4.50	33.40	1505.0	1497.0	1491.4	0.51	0.93	0.97	27.67	-30.2	-17.5	-25.6	1.18	1.87	-80.00	-103.8	-125.4	-145.1	86.7	-123.92
5.00	33.12	1521.4	1513.7	1508.1	0.54	0.96	1.01	27.80	-30.2	-17.1	-25.7	1.12	1.45	-77.78	-103.3	-125.4	-145.2	100.0	-125.15
5.50	32.62	1537.6	1530.3	1524.7	0.66	1.03	1.03	27.95	-28.5	-17.0	-25.2	1.06	0.39	-76.86	-102.3	-125.1	-145.3	148.1	-128.67
6.00	32.13	1553.5	1546.6	1541.0	0.77	1.13	1.11	28.07	-28.6	-16.7	-24.6	1.02	0.56	-77.32	-102.7	-125.1	-145.3	177.0	-130.31
6.50	31.70	1569.1	1562.6	1557.1	0.83	1.21	1.19	28.17	-27.5	-16.7	-24.3	1.00	1.27	-76.79	-102.6	-124.8	-145.3	211.6	-131.90
7.00	31.23	1584.5	1578.5	1572.9	0.85	1.21	1.19	28.28	-27.5	-16.2	-23.8	0.99	1.66	-75.43	-102.8	-124.7	-145.0	302.4	-134.92
7.50	30.82	1599.6	1594.1	1588.6	0.88	1.22	1.18	28.36	-26.6	-16.1	-23.3	1.00	1.32	-75.05	-101.9	-124.5	-144.8	361.5	-136.37
8.00	30.50	1614.3	1609.5	1603.9	0.95	1.25	1.19	28.45	-26.3	-15.6	-23.5	1.01	0.45	-75.19	-101.3	-124.3	-144.7	507.5	-139.48
8.50	30.21	1628.8	1624.8	1619.1	0.97	1.29	1.22	28.53	-26.2	-15.4	-23.1	1.03	1.45	-75.59	-101.6	-124.1	-144.5	606.7	-141.06
9.00	29.99	1643.0	1639.9	1634.2	0.95	1.26	1.20	28.61	-26.3	-15.2	-23.3	1.04	1.99	-74.19	-101.1	-123.8	-144.2	851.6	-143.97
9.50	29.64	1657.0	1654.9	1649.2	0.94	1.26	1.17	28.69	-26.3	-15.2	-24.0	1.05	1.56	-73.39	-100.6	-123.4	-143.8	1000.0	-145.22

*at 25°C unless mentioned otherwise



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