

Surface Mount

Voltage Controlled Oscillator

ROS-3267+

Low Noise 3259 to 3267 MHz



CASE STYLE: CK1113
PRICE: \$ 25.95 ea. QTY (5-49)

Features

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

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 dB (MHz)	PUSHING (MHz/V)	DC OPERATING POWER				
	Min.	Max.		Typ.	1	10	100	1000	VOLTAGE RANGE (V)	SENSITIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)		Typ.	Typ.			Max.	Typ.	Max.	Vcc (volts)	Current (mA)
	Typ.																					
ROS-3267+	3259	3267	+3.5	-84	-110	-131	-151	0.5	4.5	17	-21	22	180	-90	-13	-	1	1	5	40		

Pin Connections

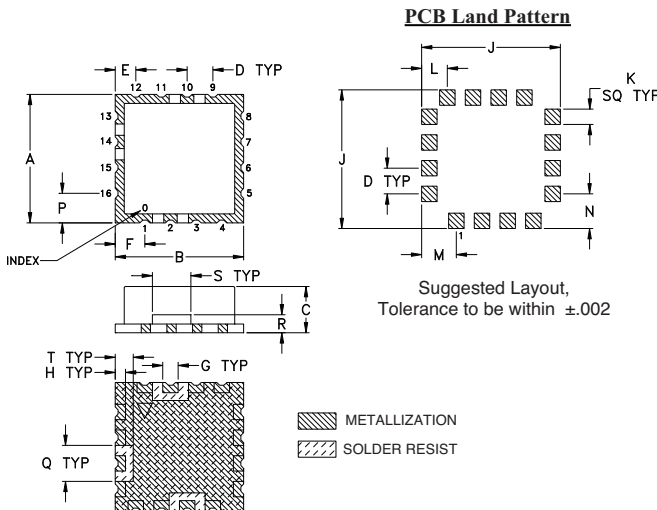
RF OUT	10
VCC	14
V-TUNE	2
GROUND	1,3,4,5,6,7,8,9,11,12,13,15,16

Maximum Ratings

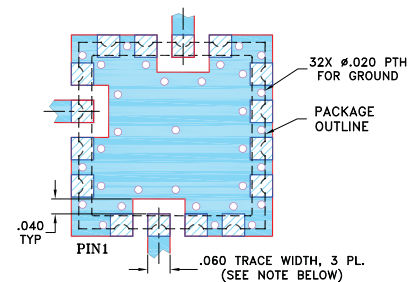
Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	6V
Absolute Max. Tuning Voltage (Vtune)	6V
All specifications	50 ohm system

Permanent damage may occur if any of these limits are exceeded.

Outline Drawing



Demo Board MCL P/N: TB-10 Suggested PCB Layout (PL-012)



NOTES:

- TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS .030" ± .002"; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
 - BOTTOM SIDE OF THE BOTTOM IS CONTINUOUS GROUND PLANE.
- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
 DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

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	.220	.100	.080	.115	.060	.040	.540	.060	.100	.135	.135	.115	.140	.070	.150	.070	grams
12.70	12.70	5.59	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	1.2



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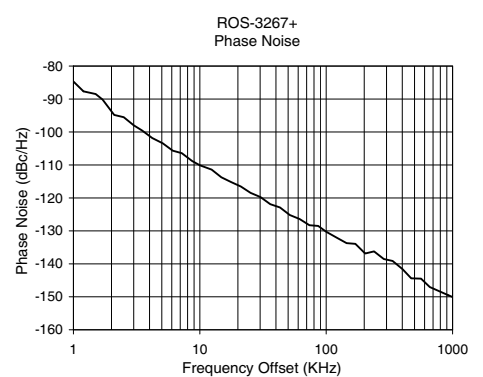
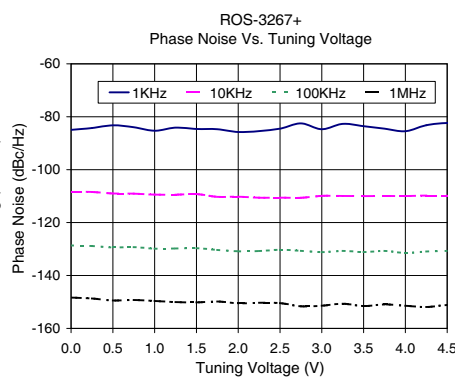
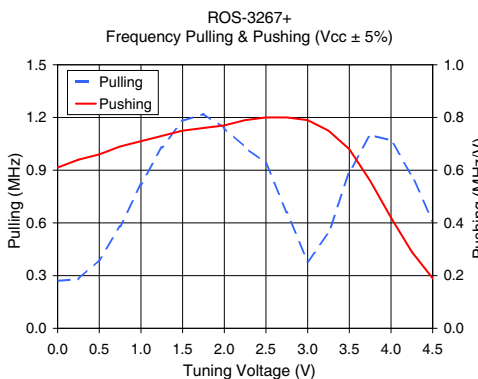
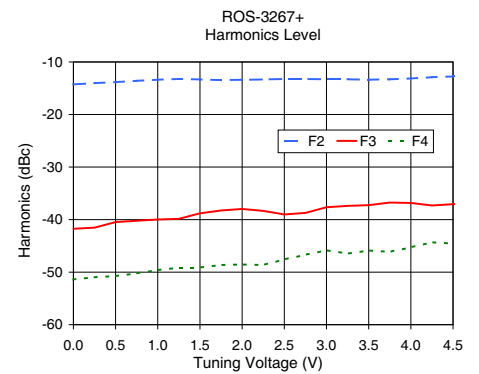
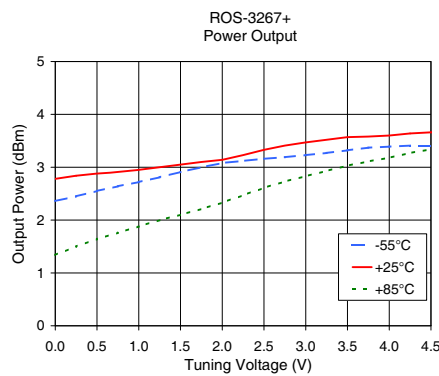
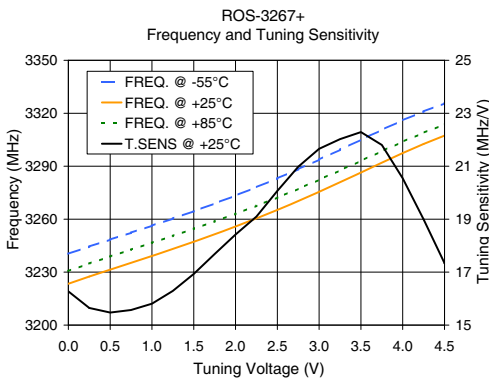
REV. A
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ROS-3267+
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Performance Data & Curves*

ROS-3267+

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 3263 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	16.27	3240.4	3223.4	3230.6	2.36	2.78	1.34	27.17	-14.3	-41.7	-51.4	0.61	0.27	-84.95	-108.4	-128.7	-148.4	1.0	-84.69
0.25	15.65	3244.5	3227.5	3234.9	2.45	2.84	1.50	27.23	-14.0	-41.5	-51.0	0.64	0.28	-84.25	-108.4	-128.9	-148.7	2.1	-94.82
0.50	15.47	3248.4	3231.4	3238.8	2.55	2.88	1.64	27.28	-13.8	-40.5	-50.7	0.66	0.39	-83.23	-109.0	-129.4	-149.5	3.5	-99.57
0.75	15.57	3252.3	3235.3	3242.7	2.64	2.91	1.76	27.33	-13.6	-40.2	-50.2	0.69	0.58	-83.97	-109.1	-129.3	-149.3	6.1	-105.67
1.00	15.81	3256.3	3239.2	3246.6	2.72	2.95	1.88	27.39	-13.4	-40.0	-49.6	0.71	0.82	-85.30	-109.4	-129.9	-149.6	8.7	-108.80
1.25	16.29	3260.4	3243.1	3250.5	2.81	3.00	2.00	27.45	-13.2	-39.9	-49.2	0.73	1.03	-84.11	-109.5	-129.8	-150.0	10.0	-110.11
1.50	16.93	3264.6	3247.2	3254.6	2.91	3.05	2.10	27.51	-13.3	-38.8	-49.1	0.75	1.18	-84.63	-109.2	-129.7	-150.2	21.1	-116.54
1.75	17.68	3268.9	3251.4	3258.7	3.00	3.10	2.21	27.56	-13.5	-38.3	-48.6	0.76	1.22	-84.70	-110.3	-130.3	-149.8	36.1	-121.90
2.00	18.42	3273.4	3255.9	3263.1	3.08	3.14	2.33	27.62	-13.4	-38.0	-48.6	0.77	1.14	-85.78	-110.2	-130.9	-150.5	61.6	-126.41
2.25	19.10	3278.1	3260.5	3267.6	3.12	3.23	2.47	27.68	-13.3	-38.4	-48.7	0.79	1.03	-85.40	-110.6	-130.8	-150.3	86.4	-128.49
2.50	20.07	3283.1	3265.2	3272.3	3.16	3.33	2.61	27.74	-13.2	-39.0	-47.6	0.80	0.94	-84.50	-110.6	-130.3	-150.4	100.0	-130.25
2.75	20.98	3288.3	3270.3	3277.2	3.19	3.41	2.73	27.80	-13.2	-38.7	-46.7	0.80	0.66	-82.51	-110.6	-130.7	-151.6	121.3	-132.07
3.00	21.66	3293.7	3275.5	3282.3	3.23	3.47	2.83	27.85	-13.3	-37.7	-45.8	0.79	0.38	-84.72	-109.9	-131.2	-151.4	203.5	-136.85
3.25	22.02	3299.4	3280.9	3287.6	3.27	3.52	2.93	27.90	-13.3	-37.4	-46.5	0.75	0.54	-82.70	-109.9	-130.7	-150.7	285.6	-138.54
3.50	22.29	3305.0	3286.4	3293.0	3.32	3.57	3.03	27.96	-13.4	-37.3	-45.9	0.68	0.89	-83.58	-110.0	-131.2	-151.5	335.4	-139.12
3.75	21.80	3310.6	3292.0	3298.5	3.37	3.58	3.11	28.00	-13.3	-36.8	-46.1	0.56	1.10	-84.51	-109.9	-130.7	-150.9	470.7	-144.40
4.00	20.54	3316.0	3297.4	3303.8	3.39	3.60	3.18	28.05	-13.1	-36.8	-45.3	0.42	1.07	-85.48	-110.0	-131.5	-151.4	562.6	-144.49
4.25	18.99	3321.0	3302.6	3308.9	3.41	3.64	3.27	28.10	-12.9	-37.3	-44.3	0.29	0.87	-83.21	-109.8	-131.0	-151.9	660.6	-147.04
4.50	17.34	3325.6	3307.3	3313.7	3.41	3.66	3.34	28.16	-12.8	-37.1	-44.6	0.19	0.61	-82.36	-109.8	-130.7	-151.2	1000.0	-150.06

*at 25°C unless mentioned otherwise



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