

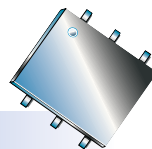
VOLTAGE CONTROLLED OSCILLATORS 50 Ω

12.5 MHz to 3 GHz



MODEL PREFIX	FREQUENCY (MHz)		POWER OUTPUT (dBm)	TUNE VOLTAGE (V)		PHASE NOISE (dBc/Hz) SSB@ offset frequencies: Typ.				PULLING (MHz) pk-pk @12 dB	PUSHING (MHz/V)	TUNING SENSITIVITY (MHz/V)	HARMONICS (dBc)		3dB MOD. BANDWIDTH (kHz)	POWER SUPPLY	
	Min.	Max.	Typ.	Min.	Max.	1 kHz	10 kHz	100 kHz	1 MHz	Typ.	Typ.	Typ.	Typ.	Max.	Typ.	Voltage (V) Nom.	Current (mA) Max.
LINEAR TUNING Wideband																	
JCOS-175LN	125	175	+3.7	1.0	17.0	-95	-118	-138	-158	0.08	0.05	3-5	-25	-20	2900	12.0	20
JCOS-820BLN	807	832	+3.0	1.0	14.0	-88	-112	-132	-151	0.4	0.4	6.0	-24	-20	2000	10.0	25
JCOS-820WLN	780	860	+9.0	0.0	20.0	-90	-112	-132	-150	4.5	0.3	8.0	-13	-8	2000	9.0	25
JCOS-1100LN	1079	1114	+8.5	0.0	20.0	-88	-110	-130	-150	7.5	0.5	4.5	-15	-10	2000	8.0	25
JTOS-25	12.5	25	+8.0	1.0	11.0	-95	-115	-135	-155	0.03	0.02	1.0-4.0	-26	-13	130	12.0	20
JTOS-50	25	47	+8.5	1.0	15.0	-88	-108	-127	-147	0.06	0.04	2.0-2.6	-19	-12	50	12.0	20
JTOS-75	37.5	75	+8.0	1.0	16.0	-89	-110	-130	-140	0.15	0.11	2.8-4.0	-27	-20	125	12.0	20
JTOS-100	50	100	+8.3	1.0	16.0	-83	-108	-128	-140	0.6	0.2	3.7-4.8	-35	-20	100	12.0	18
JTOS-150	75	150	+9.5	1.0	16.0	-82	-106	-127	-147	0.8	0.3	5.8-6.7	-23	-17	112	12.0	20
JTOS-200	100	200	+10.0	1.0	16.0	-84	-105	-124	-145	1.0	0.2	6-10	-25	-20	110	12.0	20
JTOS-300	150	280	+9.0	1.0	16.0	-82	-102	-122	-142	1.0	0.2	9-14	-28	-20	120	12.0	20
JTOS-400	200	380	+9.0	1.0	16.0	-82	-102	-122	-142	1.4	0.4	10.5-17.1	-25	-20	130	12.0	20
JTOS-535	300	525	+9.5	1.0	16.0	-75	-97	-117	-137	2.0	0.5	10-24	-28	-20	115	12.0	20
JTOS-765	485	765	+8.0	1.0	16.0	-75	-98	-118	-138	2.0	0.5	20-30	-30	-20	100	12.0	20
JTOS-850VW	400	850	+6.0	0.5	18.0	-74	-96	-116	-136	6.0	1.5	15-80	-20	—	185	5.0	20
JTOS-1000W	500	1000	+7.0	1.0	18.0	-73	-94	-114	-134	5.0	1.0	30-40	-26	-20	100	12.0	25
JTOS-1025	685	1025	+8.6	1.0	16.0	-70	-94	-114	-134	5.0	0.6	21-36	-28	-20	100	12.0	22
JTOS-1300	900	1300	+7.0	1.0	20.0	-70	-95	-115	-135	12.0	1.0	25-45	-28	-17	1000	12.0	30
JTOS-1550	1150	1550	+7.0	0.5	20.0	-73	-101	-121	-141	14.0	0.7	22-32	-20	-10	2700	12.0	30
JTOS-1650	1200	1650	+7.0	1.0	13.0	-70	-95	-115	-135	15.0	1.5	50-90	-20	-14	1000	12.0	30
JTOS-1750	1350	1750	+7.0	0.5	20.0	-73	-101	-121	-141	7.0	0.5	26-35	-16	-10	2700	12.0	30
JTOS-1910	1625	1910	+7.0	1.0	12.0	-69	-97	-117	-137	10.0	1.0	30-60	-20	-15	2500	12.0	20
JTOS-1950	1550	1950	+7.0	0.5	20.0	-75	-103	-125	-144	7.0	0.6	23-32	-14	-10	8000	12.0	30
JTOS-2000	1370	2000	+12.0	1.0	22.0	-70	-95	-115	-135	40.0	1.5	30-50	-11	-8	1000	8.0	30
JTOS-2700V	2050	2700	+8.0	0.5	18.0	-72	-94	-114	-134	5.0	1.0	46-56	-25	-10	8000	5.0	20
JTOS-3000	2300	3000	+10.0	0.5	12.0	-60	-90	-110	-130	50.0	5.0	50-150	-22	-12	20000	5.0	25
MOS-114	57	114	+7.0	0.5	14.0	-85	-110	-131	-152	0.3	0.1	6.0	-12	—	2000	15.0	22
MOS-1570	1250	1570	+3.5	2.0	20.0	-79	-105	-126	-146	1.5	0.5	26-38	-18	-10	35000	5.0	35
ROS-71-119	62	71	+4.5	0.5	6.0	-93	-114	-134	-154	0.5	0.5	3.0	-30	-20	200	5.0	15
ROS-100	50	100	+8.3	0.5	17.0	-75	-105	-125	-145	0.6	0.3	3.0-5.0	-30	-20	100	12.0	20
ROS-150	75	150	+9.5	1.0	18.0	-80	-103	-127	-144	0.8	0.3	4.0-6.8	-23	-16	100	12.0	20
ROS-200	100	200	+10.0	1.0	17.0	-80	-105	-125	-145	0.6	0.3	6-11	-30	-20	100	12.0	20
ROS-200-719	144	200	+9.0	0.5	16.0	-97	-122	-142	-161	0.1	0.1	5.0	-20	-10	75000	12.0	33
ROS-244	170	244	+10.0	2.0	16.0	-96	-123	-143	-162	0.1	0.1	6.0	-20	—	50000	12.0	32
ROS-300	150	280	+9.0	1.0	16.0	-80	-102	-122	-142	0.5	0.3	7-17	-28	-18	100	12.0	20
ROS-310-419	160	360	+7.5	0.5	18.0	-80	-102	-124	-145	0.3	0.4	9-18	-28	-19	1700	10.0	21
ROS-310-519	240	305	+6.0	0.5	17.0	-89	-112	-133	-153	0.5	0.7	5.0-7.0	-24	-14	40000	5.0	30
ROS-330-119	244	340	+9.0	4.0	16	-91	-118	-139	-158	0.20	0.20	7.0-10	-23	-10	1500	12.0	31
ROS-368-119	360	380	+2.5	0.5	10.0	-96	-120	-141	-160	0.1	0.03	6.0	-20	-13	50000	5.0	23
ROS-386-119	295	386	+9.5	4.0	16.0	-90	-117	-138	-158	0.2	0.4	10.0	-23	-12	18000	12.0	31
ROS-400	200	380	+9.5	0.5	17.0	-80	-100	-120	-140	0.2	0.3	9-22	-24	-18	100	12.0	20
ROS-400-1119	200	400	+6.5	0.5	20.0	-79	-102	-123	-145	0.6	1.0	10-17	-34	-20	200	5.0	20
ROS-470-319	460	470	+2.5	1.0	10.0	-94	-118	-138	-150	0.1	0.1	6.0	-21	-15	100000	5.0	22
ROS-480	386	480	+9.5	3.0	16.0	-90	-117	-137	-158	0.1	0.3	10.0	-20	-30	30000	12.0	31
ROS-535	300	525	+6.0	1.0	17.0	-75	-98	-118	-138	0.5	0.4	9-27	-20	-15	100	12.0	20
ROS-675-219	500	750	+6.0	0.5	28.0	-88	-113	-136	-156	0.8	1.5	5.0-14	-20	—	25000	5.0	37
ROS-730-319	655	730	+1.2	0.5	9.0	-89	-113	-133	-153	0.4	0.1	11-15	-23	-14	45000	5.0	25

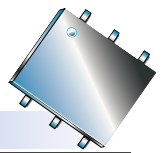




MODEL PREFIX	FREQUENCY (MHz)		POWER OUTPUT (dBm)	TUNE VOLTAGE (V)		PHASE NOISE (dBc/Hz) SSB@ offset frequencies: Typ.				PULLING (MHz) pk-pk @12 dBc	PUSHING (MHz/V)	TUNING SENSITIVITY (MHz/V)	HARMONICS (dBc)		3dB MOD. BANDWIDTH (kHz)	POWER SUPPLY	
	Min.	Max.		Min.	Max.	1 kHz	10 kHz	100 kHz	1 MHz				Typ.	Max.		Voltage (V) Nom.	Current (mA) Max.
ROS-753-119	734	753	+3.0	1.0	9.0	-94	-121	-141	-161	0.3	0.2	8.0	-25	-15	40000	5.0	35
ROS-765	485	765	+6.0	1.0	16.0	-74	-95	-115	-135	2.0	0.5	10-40	-27	-14	100	12.0	22
ROS-780	720	780	+10.0	0.5	12.0	-88	-114	-135	-155	1.0	0.7	11-14	-21	-15	20000	12.0	26
ROS-810LN	760	810	+5.0	0.5	10.0	-90	-115	-135	-155	1.8	0.5	8-10	-24	-18	6000	8.0	20
ROS-824-119	540	824	+9.0	2.0	16.0	-77	-99	-120	-140	3.0	1.0	21-30	-30	-20	1500	10.0	25
ROS-850-719	750	850	+5.0	0.0	10.0	-86	-110	-130	-150	1.0	0.5	18-21	-25	-15	100000	5.0	30
ROS-850W-119	400	850	+10.0	1.0	25.0	-71	-98	-119	-140	4.0	0.3	18-32	-22	-12	13000	5.0	27
ROS-890C	875	890	+6.20	0.50	11.0	-97	-125	-145	-164	0.10	0.20	5.0	-19	-12	60000	8.0	35
ROS-900-519	625	855	+5.80	0.50	18.0	-82	-106	-127	-147	1.50	0.40	15-26	-13	—	25000	10	35
ROS-928C-519	902	928	+4.60	0.50	10.0	-92	-120	-141	-161	0.40	0.30	6.0	-20	-15	90000	8.0	35
ROS-950-219	850	950	+6.0	0.5	12.0	-89	-117	-139	-156	0.5	0.5	9-13	-20	-12	30000	5.0	30
ROS-1000V	900	1000	0.0	0.5	12.0	-74	-102	-122	-140	1.0	0.4	12-16	-30	-20	8000	5.0	25
ROS-1015-119	750	1010	+6.0	0.5	28.0	-85	-113	-134	-154	1.0	1.5	7-15	-20	-10	35000	5.0	35
ROS-1100V	1000	1100	0.0	0.5	12.0	-80	-103	-123	-142	1.5	1.5	12-16	-26	-20	8000	5.0	25
ROS-1120-119	610	1120	+13.0	0.5	18.0	-77	-102	-124	-145	9.0	0.5	40-56	-20	-10	30000	15.0	37
ROS-1121V	1060	1121	+2.5	1.0	11.0	-88	-111	-131	-149	0.7	0.7	8-13	-11	—	10000	5.0	30
ROS-1150-519	750	1150	+7.0	0.5	13.5	-78	-101	-121	-141	2.0	2.0	38-45	-20	-12	70000	5.0	35
ROS-1150C-119	1146	1154	+2.0	0.5	11.0	-98	-123	-143	-159	0.1	1.1	3.0	-20	-10	70000	5.0	35
ROS-1200W	612	1200	+10.0	0.5	18.0	-71	-97	-119	-139	9.0	0.45	26-68	-18	-10	20000	12.0	40
ROS-1275	1212	1275	0.0	0.5	12.0	-87	-112	-133	-153	0.02	1.5	8-13	-17	-11	14000	5.0	34
ROS-1300	400	1300	+8.0	0.3	20.0	-65	-91	-120	-141	3.5	1.5	40-60	-12	—	30000	5.0	40
ROS-1303-119	1011	1270	+7.0	0.5	12.0	-82	-109	-130	-150	1.5	1.0	26-39	-24	-14	80000	5.0	36
ROS-1310C	1260	1310	+3.0	0.50	20.0	-93	-120	-139	-159	0.20	0.10	4.50	-19	-10	50000	5.0	35
ROS-1340-119	1260	1340	+2.0	2.0	12.0	-86	-111	-132	-151	0.5	0.2	11-16	-33	-20	270000	5.0	30
ROS-1410	850	1410	+7.0	0.5	11.0	-73	-99	-119	-138	15.0	1.0	50-80	-8	—	1000	12.0	25
ROS-1420-419	1230	1420	+6.0	0.5	28.0	-85	-111	-131	-151	1.5	0.5	10-15	-21	-10	50000	5.0	35
ROS-1455	900	1455	+13.0	0.5	12.0	-72	-100	-126	-146	18.0	0.5	60-71	-15	—	75000	12.0	40
ROS-1480-119	1100	1480	+12.0	1.0	18.0	-79	-103	-123	-143	20.0	0.5	22-36	-30	-12	70000	15.0	45
ROS-1500	1000	1500	+8.0	0.5	20.0	-79	-104	-124	-144	10.0	1.2	25-40	-13	—	100000	10.0	26
ROS-1580-1PH19	1260	1580	+3.5	0.5	10.0	-77	-103	-124	-144	2.0	0.7	35-44	-29	-15	120000	5.0	31
ROS-1580-219	1450	1580	+1.5	0.5	11.0	-86	-109	-129	-149	1.0	0.3	17-22	-30	-23	180000	5.0	27
ROS-1584-219	1555	1575	+5.0	1.0	12.0	-89	-114	-134	-153	0.7	0.1	5.0	-34	-20	65000	5.0	35
ROS-1600W	800	1600	+9.0	0.5	24.0	-72	-99	-122	-143	10.0	0.3	35-58	-22	-15	90000	11.5	35
ROS-1624	1400	1624	+1.0	0.5	9.5	-80	-104	-124	-144	1.5	1.2	29-35	-19	-10	40000	5.0	40
ROS-1640-219	1610	1640	+2.5	0.5	9.0	-86	-111	-131	-151	1.0	0.3	12.0	-25	-15	200000	5.0	35
ROS-1645W-119	1200	1645	+8.0	0.5	16.0	-79	-106	-127	-147	4.0	0.2	26-43	-19	-10	80000	10.0	30
ROS-1700-919	950	1620	+6.0	0.50	10.0	-72	-100	-123	-144	0.20	0.50	70-110	-20	-11	60000	10.0	30
ROS-1700-1Q19	1645	1700	+1.5	0.5	3.0	-72	-95	-116	-137	6.0	1.0	75-83	-16	-10	270000	4.5	24
ROS-1700W	770	1700	+8.0	1.0	24.0	-73	-100	-121	-140	9.0	0.4	26-60	-25	-13	11000	12.0	40
ROS-1707-119	1033	1707	+8.0	0.5	22.0	-74	-100	-121	-142	10.5	2.0	32-59	-15	—	100000	10.0	35
ROS-1720	1550	1720	+7.0	0.5	12.0	-73	-101	-121	-141	11.0	1.3	28-34	-17	-10	18000	12.0	25
ROS-1740-519	1640	1740	+1.5	0.5	11.0	-85	-108	-128	-147	1.0	0.5	16-19	-28	-20	170000	5.0	27
ROS-1750W-619	950	1750	+6.0	0.5	12.0	-71	-99	-121	-143	0.3	0.2	71-103	-20	-10	50000	10.0	35
ROS-1770-1PH19	1710	1800	+3.0	0.5	8.0	-86	-111	-132	-152	0.1	0.2	18-21	-22	-13	120000	5.0	30
ROS-1790-519	1640	1790	+6.2	0.50	12.0	-82	-107	-127	-147	3.0	0.70	19.0	-28	-20	50000	5.0	31
ROS-1862-119	1524	1862	+7.0	1.0	24.0	-78	-104	-125	-146	4.0	0.5	25-37	-18	—	12000	8.0	30
ROS-1900	1450	1900	+7.0	0.5	20.0	-80	-106	-126	-146	7.0	0.7	22-34	-15	-7	100000	10.0	25
ROS-1900-919	1600	1900	0.0	1.0	12.0	-78	-104	-125	-145	1.0	0.3	34.0	-19	-10	60000	8.0	35

Additional Linear Tuning Wideband models, see pages 150-151





VOLTAGE CONTROLLED OSCILLATORS 50 Ω

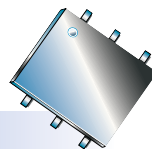
970 MHz to 4720 MHz



ROS
Case CK605, CK1113, CK829

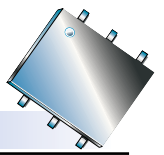
MODEL PREFIX	FREQUENCY (MHz)		POWER OUTPUT (dBm)	TUNE VOLTAGE (V)		PHASE NOISE (dBc/Hz) SSB@ offset frequencies: Typ.				PULLING (MHz) pk-pk @12 dBr	PUSHING (MHz/V)	TUNING SENSITIVITY (MHz/V)	HARMONICS (dBc)		3dB MOD. BANDWIDTH (kHz)	POWER SUPPLY						
	Min.	Max.		Typ.	Min.	Max.	1 kHz	10 kHz	100 kHz				1 MHz	Typ.		Typ.	Typ.	Typ.	Max.	Typ.	Voltage (V) Nom.	Current (mA) Max.
LINEAR TUNING Wideband																						
ROS-1900V	1450	1900	+8.0	0.5	20.0	-78	-104	-124	-144	7.0	0.7	22-34	-18	-10	100000	5.0	28					
ROS-1950	1670	1950	+6.0	0.0	12.0	-76	-101	-122	-142	10.0	3.0	27-52	-17	—	110000	5.0	30					
ROS-1950-519	1780	1950	+4.0	0.5	11.0	-84	-110	-130	-150	1.0	0.4	23-25	-18	—	7000	5.0	32					
ROS-1990	1800	1990	+6.0	1.0	11.0	-75	-101	-122	-143	5.0	1.3	37-44	-30	-16	270000	8.0	30					
ROS-2000	1350	2000	+7.0	0.5	20.0	-75	-100	-120	-140	9.0	1.3	30-50	-11	—	2000	12.0	25					
ROS-2000-1419	1720	2000	+6.0	1.0	10.0	-78	-102	-123	-143	3.0	0.7	56-59	-14	—	100000	10.0	30					
ROS-2030-119	1670	2030	+7.5	0.5	16.0	-77	-102	-123	-143	9.0	0.8	22-37	-19	—	25000	5.0	30					
ROS-2041-119	1844	2042	+5.0	1.0	10.0	-81	-106	-126	-146	0.30	0.30	17.0	-29	-13	120000	5.0	40					
ROS-2050-719	1020	1980	+4.5	0.5	15.0	-75	-100	-121	-141	0.40	0.30	57-1-5	-17	—	25000	10	37					
ROS-2100-119	1350	2100	+8.5	0.5	18.5	-76	-102	-124	-144	8.5	0.5	46-72	-18	—	60000	8.0	35					
ROS-2117	2063	2117	+6.0	0.5	6.0	-83	-106	-127	-147	0.7	1.0	19.0	-30	-22	160000	5.0	35					
ROS-2130-719	1950	2120	+1.0	0.5	11.0	-83	-108	-128	-148	0.2	1.0	22-25	-16	—	130000	5.0	37					
ROS-2150-1019	2000	2130	+5.0	0.5	10.0	-75	-101	-122	-142	4.5	0.2	21-27	-30	-23	300000	5.0	36					
ROS-2150WW	970	2150	+4.0	0.5	25.0	-70	-96	-118	-138	7.0	2.5	30-70	-15	—	6000	5.0	25					
ROS-2160W	1160	2160	+5.0	0.5	20.0	-70	-97	-117	-137	10.0	1.5	30-80	-11	—	12000	10.0	30					
ROS-2180-419	2000	2180	+10.0	0.5	6.0	-73	-102	-124	-144	12.0	1.5	61-75	-21	-10	100000	5.0	40					
ROS-2200	1200	2200	+7.0	0.5	17.0	-72	-97	-118	-138	13.0	1.0	57-86	-22	-11	200000	11.5	27					
ROS-2230-119	1430	2230	+11.0	0.5	18.0	-70	-99	-120	-141	7.0	0.7	42-94	-30	—	150000	12.0	30					
ROS-2250W-119	1220	2250	+3.5	0.0	20.0	-73	-99	-120	-142	5.0	1.0	50-75	-18	—	70000	5.0	25					
ROS-2252C-119	2103	2252	-1.0	1.0	12.0	-81	-108	-129	-149	0.4	0.3	28.0	-17	-10	120000	8.0	35					
ROS-2310	2290	2310	+7.0	0.5	5.0	-90	-116	-136	-157	1.0	0.1	7-9	-22	-12	180000	5.0	34					
ROS-2345	2295	2345	+5.0	0.5	6.0	-83	-107	-127	-147	1.0	1.0	19.0	-22	-13	230000	4.75	35					
ROS-2350	2160	2350	+5.5	0.5	10.0	-79	-101	-123	-143	1.0	4.0	27-33	-27	-19	200000	5.0	37					
ROS-2350-519	1960	2350	+7.0	0.5	15.0	-81	-106	-127	-146	6.0	0.5	33-44	-23	-10	140000	6.0	40					
ROS-2400-1019	2100	2400	+6.5	0.5	12.0	-75	-100	-121	-140	2.5	3.5	42-50	-30	-20	20000	5.0	42					
ROS-2404C-119	2267	2404	+0.5	1.0	13.0	-85	-110	-131	-151	0.1	0.5	18-21	-24	-14	120000	6.0	40					
ROS-2405C-119	2189	2405	-0.30	1.0	11.50	-78	-106	-128	-147	0.40	0.50	40-43	-25	-15	120000	8.0	40					
ROS-2420	1220	2420	+0.5	0.5	20.0	-70	-95	-117	-138	1.5	1.5	50-82	-20	-10	90000	5.0	47					
ROS-2425-119	2275	2425	+3.0	0.5	11.0	-80	-104	-124	-144	0.3	1.5	17-25	-22	-12	100000	5.0	36					
ROS-2432-119	1662	2432	+5.5	1.0	28.0	-73	-100	-123	-143	6.5	1.0	23-49	-18	—	230000	10.0	30					
ROS-2450C	2120	2450	+7.0	0.0	15.0	-80	-107	-128	-148	3.0	0.3	28-35	-23	-12	150000	6.0	34					
ROS-2485	2050	2485	+6.5	0.5	16.0	-77	-105	-126	-146	3.0	0.3	31-59	-30	-15	150000	8.0	32					
ROS-2490	2280	2490	+8.0	0.5	10.0	-80	-104	-124	-144	1.0	1.0	30-37	-20	-11	140000	5.0	38					
ROS-2490C	2020	2490	7.20	0.25	16.0	-79	-107	-128	-149	2.5	0.4	30-40	-32	-15	45000	8.0	40					
ROS-2500	1600	2500	+6.5	0.5	14.0	-66	-90	-113	-133	18.0	5.0	30-180	-14	-8	6000	12.0	25					
ROS-2500-1419	2165	2475	+7.0	0.5	20.0	-80	-103	-124	-144	5.0	0.4	25-36	-28	-15	150000	5.0	40					
ROS-2632C	2434	2632	-0.30	1.0	12.0	-81	-108	-129	-149	0.4	0.1	27-31	-16	—	110000	8.0	40					
ROS-2650	2165	2650	+5.0	0.5	19.0	-75	-101	-121	-141	5.0	1.0	27-36	-12	—	200000	12.0	25					
ROS-2700-819	1950	2700	+8.7	0.5	10.0	-64	-90	-112	-132	21.7	6.0	91-156	-27	-12	340000	8.5	29					
ROS-2700-1419	2500	2700	+6.0	0.5	8.0	-74	-98	-119	-139	2.0	4.5	40-45	-18	-10	30000	5.0	36					
ROS-2710C-119	2670	2700	+3.0	0.5	5.5	-80	-110	-131	-151	0.3	0.2	16.0	-14	—	140000	5.0	35					
ROS-2729C	2490	2729	0.0	1.0	11.5	-80	-107	-127	-147	0.50	0.10	27-37	-16	-10	110000	8.0	40					
ROS-2740-219	2700	2740	+3.5	0.5	5.5	-83	-106	-127	-146	0.7	2.0	17.0	-19	-12	150000	5.0	36					
ROS-2750	2350	2750	+5.7	0.5	14.5	-78	-105	-127	-146	2.0	0.3	32-42	-23	-12	120000	6.0	35					
ROS-2750C-119	2720	2750	+4.0	0.25	5.5	-84	-110	-130	-150	0.8	0.4	16.0	-22	-12	120000	5.0	35					
ROS-2760-219	2660	2760	+5.5	0.5	12.0	-83	-107	-127	-147	1.0	1.5	16-19	-27	-20	200000	8.0	41					
ROS-2760C-119	2600	2760	+4.0	0.50	18.0	-85	-113	-133	-153	-0.80	0.30	12-16	-16	-9	60000	8.0	37					





MODEL PREFIX	FREQUENCY (MHz)		POWER OUTPUT (dBm)	TUNE VOLTAGE (V)		PHASE NOISE (dBc/Hz) SSB@ offset frequencies: Typ.				PULLING (MHz) pk-pk @12 dBr	PUSHING (MHz/V)	TUNING SENSITIVITY (MHz/V)	HARMONICS (dBc)		3dB MOD. BANDWIDTH (kHz)	POWER SUPPLY	
	Min.	Max.		Min.	Max.	1 kHz	10 kHz	100 kHz	1 MHz				Typ.	Max.		Voltage (V) Nom.	Current (mA) Max.
ROS-2770	1970	2770	+5.0	0.5	25	-75	-102	-123	-142	3.5	2.0	36-65	-16	—	45000	8.0	35
ROS-2770-219	1970	2770	+6.0	1.0	28.0	-74	-101	-123	-143	4.5	1.5	24-56	-27	-15	250000	10.0	32
ROS-2793-119	2300	2700	+8.0	0.5	13.0	-74	-100	-120	-140	9.0	1.5	40-55	-17	-10	600000	5.0	30
ROS-2800-519	2000	2750	+3.5	1.0	24.0	-71	-96	-117	-137	4.0	3.0	25-56	-25	-10	45000	5.0	26
ROS-2800-719	1400	2800	+3.5	0.5	25.0	-69	-95	-116	-137	6.0	2.5	42-107	-15	—	130000	5.0	30
ROS-2800-819	2600	2800	+5.0	0.5	10.0	-76	-99	-120	-140	1.5	4.0	35-39	-32	-22	150000	5.0	42
ROS-2868C-119	2801	2868	+5.5	1.0	12.0	-76	-104	-125	-144	1.0	0.5	19-22	-22	-13	190000	8.0	35
ROS-2950-119	2700	2890	+5.0	0.5	16.0	-80	-106	-126	-146	3.0	0.7	22-36	-25	-15	170000	5.0	40
ROS-2952-119	2748	2952	+5.5	1.0	10.0	-73	-100	-121	-141	1.5	1.5	35.0	-30	-20	220000	5.0	40
ROS-2960C-119	2500	2920	+7.0	0.5	16.0	-79	-107	-128	-147	2.0	0.2	34-42	-25	-15	150000	8.0	38
ROS-3000V	2400	3000	+9.0	0.5	22.0	-70	-96	-116	-136	30.0	1.5	20-60	-18	—	20000	5.0	40
ROS-3000-819	2000	3000	+5.5	0.5	14.0	-71	-96	-117	-138	13.5	1.5	84-125	-22	-10	140000	12.0	35
ROS-3000-919	2850	3000	+5.5	0.5	10.0	-77	-100	-121	-142	2.0	1.5	37.0	-30	-20	10000	5.0	42
ROS-3050-819	2150	3050	+7.0	0.5	11.5	-69	-94	-114	-135	2.0	1.5	95-120	-20	-10	60000	5.0	47
ROS-3050C	2635	3050	+6.5	0.50	16.0	-77	-104	-125	-145	4.5	0.20	35-47	-22	-12	100000	8.0	40
ROS-3050C-119	2856	3050	+5.0	0.5	20.0	-80	-106	-127	-147	1.0	0.6	10-20	-23	-13	110000	8.0	35
ROS-3060C-119	2920	3060	+3.2	0.25	18.0	-85	-112	-132	-152	1.2	0.50	8-14	-18	-10	70000	8.0	36
ROS-3075-119	2920	3075	+3.0	0.5	11.0	-78	-102	-123	-143	0.7	2.5	24-28	-19	-10	30000	8.0	40
ROS-3100	2300	3100	+9.0	0.5	11.0	-66	-92	-113	-133	5.0	4.0	92-124	-20	-10	160000	10.0	46
ROS-3100C	2875	3100	+1.2	0.50	11.0	-78	-105	-126	-146	0.6	0.3	29-37	-35	-20	100000	8.0	37
ROS-3100-219	2850	3050	+6.0	0.5	12.0	-73	-99	-120	-141	1.0	3.0	35-42	-21	-12	20000	5.0	40
ROS-3150	2650	3150	+6.2	0.5	12.0	-69	-95	-117	-137	1.5	3.5	64-75	-22	-10	100000	5.0	42
ROS-3200-419	1750	3350	+11.0	0.5	20.0	-67	-93	-114	-135	2.0	3.0	47-130	-15	-9	40000	5.0	65
ROS-3200C-719	3060	3200	+4.7	0.50	18.0	-85	-113	-133	-152	1.0	1.0	8-13	-15	—	65000	8.0	36
ROS-3250-319	3100	3250	+6.0	0.5	10.0	-72	-98	-119	-139	2.0	4.0	27-32	-26	-18	30000	5.0	40
ROS-3250-519	2550	3250	+2.0	0.5	24.0	-74	-99	-120	-140	0.6	3.0	27-46	-22	-12	160000	5.0	42
ROS-3250-619	3000	3250	+6.50	1.0	10.0	-73	-98	-119	-139	1.50	2.50	35.0	-30	-20	80000	5.0	40
ROS-3323C-119	3192	3323	+1.0	1.0	13.0	-81	-106	-127	-147	0.7	0.2	19-27	-19	-10	300000	6.0	40
ROS-3350-219	3200	3350	+5.0	0.5	10.0	-73	-97	-118	-138	1.0	2.0	33.0	-30	-20	250000	5.0	40
ROS-3360	2120	3360	+8.5	0.5	18.0	-68	-95	-116	-136	3.0	1.0	65-113	-26	-12	170000	12.0	45
ROS-3388-219	3080	3380	+5.0	0.5	13.0	-74	-99	-120	-140	1.5	2.0	30-37	-30	-20	60000	5.0	42
ROS-3450-219	3250	3450	+5.0	0.5	10.0	-73	-98	-119	-139	1.8	1.7	28-36	-19	-13	12000	5.0	40
ROS-3500	3090	3500	+3.0	0.5	11.0	-70	-96	-117	-137	1.0	2.0	64-71	-24	-14	500000	10.0	41
ROS-3538-219	3340	3490	0.0	0.5	12.0	-75	-98	-119	-139	0.8	1.0	28-32	-35	-22	220000	8.0	40
ROS-3555	3000	3555	+5.0	0.5	15.0	-71	-97	-118	-138	1.5	3.0	60-70	-25	-15	600000	5.0	41
ROS-3600-419	3300	3600	+8.5	0.5	8.0	-71	-97	-118	-138	3.5	0.6	47-64	-20	-15	550000	5.0	46
ROS-3600-619	2950	3600	+3.0	0.5	24.0	-70	-98	-119	-139	0.8	2.0	23-46	-33	-23	110000	5.0	40
ROS-3600-919	3350	3600	+5.0	0.5	15.0	-75	-100	-120	-140	1.0	1.0	25-30	-29	-17	300000	8.0	52
ROS-3760	3200	3760	+7.5	0.5	15.0	-69	-96	-117	-138	3.0	1.0	56-67	-28	-18	600000	5.0	48
ROS-3900-219	3750	3900	+4.5	0.5	10.0	-76	-97	-118	-138	2.0	3.5	25-40	-28	-18	260000	5.0	40
ROS-3900-419	3650	3900	+4.5	0.5	12.0	-71	-94	-115	-135	2.0	4.0	32-37	-22	-12	100000	5.0	40
ROS-3960-119	3730	3920	+6.0	1.0	16.0	-71	-97	-118	-139	1.0	0.5	27-41	-20	-10	110000	8.0	45
ROS-4000-419	3850	4000	+5.0	0.5	10.0	-72	-96	-117	-137	3.0	2.5	26-36	-26	-15	20000	5.0	40
ROS-4040	3685	4040	+6.0	1.0	18.0	-70	-96	-117	-138	5.0	0.5	39-54	-20	-10	170000	8.0	43
ROS-4100-119	3950	4100	+5.5	0.5	10.0	-71	-96	-117	-137	2.0	1.5	25.0	-31	-20	30000	5.0	35
ROS-4215-119	4014	4185	+6.0	1.0	10.0	-69	-95	-115	-135	2.5	2.0	37-46	-23	-15	150000	5.0	45
ROS-4415-119	4214	4415	+5.0	1.0	10.0	-71	-95	-116	-136	2.0	4.5	36-45	-27	-15	150000	5.0	40
ROS-4720-119	4680	4720	+7.5	0.5	11.0	-70	-96	-117	-138	2.5	0.7	15.0	-26	-16	120000	5.0	50





VOLTAGE CONTROLLED OSCILLATORS 50 Ω

24 MHz to 2.6 GHz

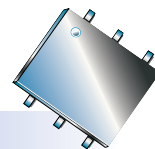


MODEL PREFIX	FREQUENCY (MHz)		POWER OUTPUT (dBm)	TUNE VOLTAGE (V)		PHASE NOISE (dBc/Hz) SSB@ offset frequencies: Typ.				PULLING (MHz) pk-pk @12 dB	PUSHING (MHz/V)	TUNING SENSITIVITY (MHz/V)	HARMONICS (dBc)		3 dB MOD. BANDWIDTH (kHz)	POWER SUPPLY	
	Min.	Max.		Min.	Max.	1 kHz	10 kHz	100 kHz	1 MHz				Typ.	Max.		Typ.	voltage Current (V) (mA) Norm. Max.

5 V TUNING for PLL IC's

JTOS-50P	24	29	+9.5	0.5	5.0	-88	-108	-127	-147	0.06	0.04	2-2.5	-14	-12	50	12.0	20
JTOS-75P	35	43	+9.0	0.5	5.0	-89	-110	-130	-140	0.15	0.11	2.5-4	-25	-20	125	12.0	20
JTOS-100P	48	59	+9.0	0.5	5.0	-83	-108	-128	-140	0.6	0.2	3.5-4	-30	-20	100	12.0	18
JTOS-150P	72	91	+9.5	0.5	5.0	-82	-106	-127	-147	0.8	0.3	6-9	-30	-17	112	12.0	20
JTOS-200P	95	120	+8.8	0.5	5.0	-84	-105	-124	-145	1.0	0.2	7-10	-30	-20	110	12.0	20
JTOS-300P	148	174	+10.0	0.5	5.0	-82	-102	-122	-142	1.0	0.2	10-14	-20	-10	120	12.0	20
JTOS-400P	194	220	+11.0	0.5	5.0	-82	-102	-122	-142	1.4	0.4	13-18	-25	-20	130	12.0	20
JTOS-535P	278	325	+9.5	0.5	5.0	-75	-97	-117	-137	2.0	0.5	17-22	-30	-20	115	12.0	20
JTOS-765P	486	510	+9.0	0.5	5.0	-75	-98	-118	-138	2.0	0.5	20-30	-30	-20	100	12.0	20
JTOS-1025P	680	755	+9.0	0.5	5.0	-70	-94	-114	-134	5.0	0.6	30-40	-27	-20	100	12.0	22
JTOS-3000P	2300	2600	+11.0	0.5	5.0	-65	-92	-112	-132	50.0	5.0	120-160	-22	-12	20000	5.0	25
MOS-464	420	464	-5.0	0.5	5.0	-82	-108	-129	-149	0.3	2.0	20-30	-19	-12	8000	4.0	14
MOS-810-119	740	810	+2.0	0.5	5.0	-81	-110	-131	-151	0.6	1.0	29-33	-28	-14	30000	5.0	28
MOS-828-219	824	828	+2.0	0.5	5.0	-88	-112	-133	-153	0.7	0.1	11	-22	-15	50000	5.0	27
MOS-958-119	958	958	+2.0	0.5	5.0	-88	-113	-133	-153	0.8	0.1	13	-22	-12	60000	5.0	40
MOS-1400-119	1395	1400	-7.5	0.5	5.0	-82	-105	-125	-145	0.5	1.5	31	-18	-10	250000	2.84	15
MOS-1560-119	1520	1560	-8.5	0.5	5.0	-83	-110	-131	-151	3.0	0.5	27	-18	-10	60000	5.0	37
MOS-1632-219	1556	1632	+4.5	0.5	5.0	-83	-110	-130	-150	1.0	0.3	31-35	-19	-10	60000	5.0	36
MOS-1739-219	1690	1760	0.0	0.5	5.0	-74	-104	-124	-144	0.1	0.7	27-32	-25	-17	300000	5.0	32
MOS-1826PV	1766	1826	+2.0	0.5	5.0	-75	-101	-122	-142	8.0	1.0	21-35	-28	-15	10000	5.0	25
MOS-1890-119	1800	1890	+4.0	0.5	5.0	-79	-105	-126	-146	0.2	1.5	38-46	-22	-13	100000	5.0	44
MOS-2033-119	1933	2033	+3.0	0.4	5.0	-78	-103	-124	-144	0.2	0.6	42-47	-23	-13	200000	5.0	37
MOS-2133-219	2033	2133	+2.5	0.5	5.0	-78	-103	-124	-144	0.2	0.5	35-41	-21	-13	200000	5.0	40
MOS-2220-119	2060	2220	+0.5	0.5	5.0	-73	-99	-120	-140	3.0	1.0	69-73	-35	-20	50000	5.0	33
MOS-2360-119	2299	2360	+6.0	0.5	5.0	-78	-103	-123	-143	1.0	1.5	36-40	-25	-15	1000000	5.0	38
MOS-2545-119	2359	2545	+1.5	0.5	5.0	-73	-101	-122	-142	2.0	0.7	62-68	-24	-14	130000	5.0	35
ROS-43-119	43	43	+2.0	0.5	5.0	-105	-130	-150	-170	0.002	0.1	1	-18	-10	3000	5.0	30
ROS-70-119	65	75	+7.0	0.5	5.0	-93	-122	-143	-162	0.02	0.2	5	-24	-15	17000	5.0	30
ROS-70-219	50	70	-0.5	0.5	5.0	-90	-110	-130	-150	0.01	0.4	7	-11	—	200	5.0	23
ROS-78-219	76	80	+4.0	0.5	5.0	-96	-122	-142	-162	0.01	0.1	4	-20	-10	5000	5.0	25
ROS-80-7119	80	85	+0.5	0.5	5.0	-100	-124	-145	-165	0.005	0.1	3	-23	-15	6000	5.0	27
ROS-86-119	80.5	86	+2.0	0.5	5.0	-90	-110	-131	-151	0.05	0.05	7	-28	-20	500	4.6	15
ROS-95-419	91	95	+5.0	0.5	5.0	-97	-125	-146	-162	0.01	0.3	4	-19	-11	7000	5.0	25
ROS-102-919	96	102	+2.0	0.5	5.0	-98	-123	-143	-162	0.01	0.2	4.5	-21	-14	35000	5.0	21
ROS-148-119	127	148	+3.5	0.5	5.0	-84	-110	-131	-152	0.30	1.5	5.0-11	-18	-10	20000	4.5	25
ROS-190-219	170	190	+0.5	0.5	5.0	-87	-115	-136	-156	0.05	0.4	9-13	-21	-13	25000	5.0	20
ROS-200-619	155	200	+1.0	0.5	5.0	-90	-114	-134	-154	0.07	0.3	12-16	-17	—	4000	5.0	21
ROS-205PV	180	210	+2.0	0.5	5.0	-88	-110	-131	-151	0.4	0.4	10-15	-30	-20	2000	5.0	15
ROS-258-119	258	258	+4.5	0.5	5.0	-97	-120	-141	-160	0.15	0.10	5.30	-23	-15	45000	5.0	25
ROS-285PV	245	285	+3.0	0.5	5.0	-80	-100	-120	-140	2.0	0.2	10-20	-20	-10	100	5.0	20
ROS-355-219	381	355	+5.0	0.5	5.0	-87	-113	-133	-153	0.2	0.5	20	-23	-12	3000	5.0	22
ROS-365-119	335	365	+6.0	0.5	5.0	-92	-119	-140	-159	0.2	0.2	13	-23	-16	5000	5.0	30
ROS-369-319	370	400	+3.0	0.5	5.0	-90	-117	-138	-159	0.1	1.0	15	-25	-18	70000	5.0	25
ROS-404-219	375	410	+2.0	0.5	5.0	-87	-113	-133	-153	0.1	0.5	18	-23	-15	80000	5.0	25
ROS-425-319	390	425	+0.50	0.5	5.0	-93	-119	-140	-161	0.1	0.04	11	-21	-12	20000	5.0	22
ROS-445	410	445	-0.2	0.5	5.0	-91	-115	-135	-155	0.4	0.2	11-12	-20	-11	60000	5.0	16
ROS-470	435	470	-0.3	0.5	5.0	-89	-114	-135	-155	0.4	0.2	11-13	-21	-13	80000	5.0	16
ROS-470-519	340	470	+6.0	0.5	5.0	-79	-102	-123	-143	2.0	0.5	55	-35	-15	30000	5.0	35
ROS-481	461	481	+6.0	0.5	5.0	-88	-115	-136	-156	0.5	0.7	17	-21	-12	80000	4.75	25
ROS-485	450	485	-1.0	0.5	5.0	-91	-114	-134	-153	0.3	0.2	11	-21	-13	80000	5.0	15
ROS-485-119	450	485	+4.0	0.5	5.0	-89	-119	-139	-159	0.2	0.4	12	-20	-10	20000	5.0	28
ROS-498-119	449	499	+5.0	0.5	5.0	-91	-118	-138	-158	0.5	0.3	13.0	-20	-10	22000	5.0	22
ROS-505	470	505	+0.5	0.5	5.0	-89	-114	-135	-154	0.2	0.3	11-13	-21	-13	80000	5.0	17
ROS-520	485	520	-0.2	0.5	5.0	-90	-115	-135	-154	0.2	0.1	12.0	-22	-14	70000	5.0	17
ROS-530	500	530	-0.4	0.5	5.0	-90	-111	-132	-151	0.4	0.1	10-11	-23	-15	80000	5.0	15
ROS-540	390	540	-1.5	0.5	5.0	-78	-105	-125	-145	0.02	1.0	44-54	-30	-20	7000	5.0	37

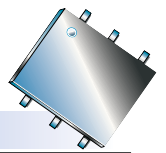




MODEL PREFIX	FREQUENCY (MHz)		POWER OUTPUT (dBm)	TUNE VOLTAGE (V)		PHASE NOISE (dBc/Hz) SSB@ offset frequencies: Typ.				PULLING (MHz) pk-pk @12 dBc	PUSHING (MHz/V)	TUNING SENSITIVITY (MHz/V)	HARMONICS (dBc)		3 dB MOD. BANDWIDTH (kHz)	POWER SUPPLY	
	Min.	Max.		Min.	Max.	1 kHz	10 kHz	100 kHz	1 MHz				Typ.	Max.		Voltage (V) Norm.	Current (mA) Max.
ROS-550PV	450	550	+6.0	0.5	5.0	-81	-104	-124	-144	3.0	0.5	30-60	-15	—	8000	5.0	15
ROS-550	515	550	-1.0	0.5	5.0	-90	-112	-133	-151	0.2	0.2	12-13	-23	-14	60000	5.0	17
ROS-570	535	570	-0.6	0.5	5.0	-90	-114	-135	-155	0.4	0.4	13	-18	-10	60000	5.0	15
ROS-585	550	585	+0.2	0.5	5.0	-90	-114	-135	-152	0.4	0.2	13	-19	-11	50000	5.0	16
ROS-590	555	590	0.0	0.5	5.0	-87	-111	-132	-152	0.4	0.2	11-12	-18	-9	60000	5.0	17
ROS-595	560	595	-0.7	0.5	5.0	-89	-112	-132	-151	0.4	0.1	12-13	-19	-10	80000	5.0	17
ROS-615	580	615	-0.6	0.5	5.0	-90	-113	-133	-153	0.2	0.2	12-13	-21	-13	19000	5.0	17
ROS-630	595	630	+0.1	0.5	5.0	-90	-113	-133	-153	0.4	0.1	11-12	-23	-15	80000	5.0	18
ROS-638	616	638	+7.0	0.5	5.0	-88	-113	-134	-154	0.7	0.6	18-20	-24	-18	70000	5.0	25
ROS-645	610	645	-0.1	0.5	5.0	-88	-112	-132	-151	0.4	0.1	12-13	-24	-16	50000	5.0	17
ROS-660PV	640	660	0.0	0.5	5.0	-85	-107	-127	-147	0.8	0.6	10-14	-17	-12	2000	5.0	15
ROS-665	630	665	+0.2	0.5	5.0	-90	-113	-133	-153	0.4	0.1	12-13	-24	-16	60000	5.0	18
ROS-675PV	655	675	0.0	0.5	5.0	-85	-107	-127	-145	1.0	0.5	10-14	-23	-10	5000	5.0	15
ROS-680	650	680	+0.5	0.5	5.0	-91	-114	-134	-154	0.3	0.2	11-12	-24	-16	50000	5.0	18
ROS-690	655	690	-1.0	0.5	5.0	-89	-111	-131	-151	0.4	0.4	12-13	-24	-16	50000	5.0	17
ROS-705-219	610	705	+3.0	0.5	5.0	-80	-105	-126	-146	0.4	1.5	28-35	-28	-13	120000	5.0	26
ROS-700	665	700	-0.1	0.5	5.0	-89	-113	-133	-153	0.4	0.1	12-13	-21	-13	80000	5.0	17
ROS-715	680	715	-0.5	0.5	5.0	-90	-113	-133	-152	0.5	0.2	12-13	-22	-14	60000	5.0	16
ROS-720	700	720	+7.0	0.5	5.0	-89	-114	-134	-154	0.6	0.7	12	-23	-15	50000	4.75	30
ROS-725PV	710	725	0.0	0.5	5.0	-85	-105	-126	-145	0.9	0.3	8-13	-19	-12	2000	5.0	15
ROS-730	695	730	+0.2	0.5	5.0	-90	-114	-134	-153	0.5	0.2	11-12	-21	-13	90000	5.0	18
ROS-740PV	720	740	0.0	0.5	5.0	-84	-106	-126	-145	1.0	0.8	10-14	-19	-12	5000	5.0	15
ROS-745	71	745	+1.2	0.5	5.0	-88	-113	-133	-153	0.8	0.3	12	-22	-14	60000	5.0	17
ROS-750	670	750	+3.0	0.5	5.0	-82	-107	-128	-158	0.3	1.0	27-32	-30	-20	110000	5.0	26
ROS-755	720	755	-0.5	0.5	5.0	-89	-113	-133	-147	0.4	0.1	12-13	-23	-15	80000	5.0	17
ROS-766	730	766	+0.4	0.5	5.0	-91	-113	-134	-154	0.6	0.1	12-13	-23	-15	80000	5.0	18
ROS-769-1G19	743	769	+1.0	0.5	5.0	-88	-112	-132	-152	0.5	0.2	14	-22	-15	90000	5.0	20
ROS-800-719	797	806	+0.5	0.5	5.0	-93	-118	-140	-162	0.2	0.2	7	-24	-18	115000	5.0	35
ROS-800C-119	798	803	+5.3	0.5	5.0	-97	-124	-145	-165	0.20	0.02	3.5	-28	-19	60000	5.0	35
ROS-808	770	808	+7.2	0.5	5.0	-84	-110	-130	-150	0.80	0.80	19	-30	-15	120000	5.0	30
ROS-810	775	810	+0.6	0.5	5.0	-88	-112	-131	-151	0.9	0.8	12-13	-19	-12	60000	5.0	18
ROS-835	800	835	-0.4	0.5	5.0	-89	-110	-130	-150	1.0	0.5	12-13	-21	-13	60000	5.0	15
ROS-850	800	850	+7.0	0.5	5.0	-86	-110	-130	-150	1.0	0.7	20	-24	-15	100000	5.0	27
ROS-850-319	800	850	-0.50	0.5	5.0	-84	-110	-131	-151	0.2	0.4	18	-25	-15	160000	5.0	24
ROS-860-319	740	860	+6.00	0.5	5.0	-82	-110	-130	-150	1.30	0.30	32-50	-17	-10	50000	5.0	30
ROS-870	840	870	+0.8	0.5	5.0	-89	-111	-132	-151	1.1	0.8	11-12	-19	-12	90000	5.0	17
ROS-892-119	835	892	+4.0	0.5	5.0	-86	-115	-135	-155	0.5	0.5	23-27	-16	-11	50000	5.0	26
ROS-900PV	810	900	+1.0	0.5	5.0	-80	-102	-122	-142	3.0	2.0	26-30	-25	-16	1000	4.5	12
ROS-924	907	924	+0.80	0.5	5.0	-90	-114	-134	-154	0.1	0.3	12	-30	-20	155000	5.0	25
ROS-928C-119	902	928	+10.0	0.5	5.0	-89	-117	-138	-157	1.0	0.2	18	-22	-15	130000	12.0	32
ROS-930C	902	930	+5.5	0.5	5.0	-88	-117	-137	-157	0.5	0.2	18	-25	-15	140000	5.0	30
ROS-970	830	970	+5.5	0.5	5.0	-80	-107	-128	-148	1.0	1.0	46	-23	-17	80000	5.0	35
ROS-960PV	890	960	0.0	0.5	5.0	-80	-102	-122	-142	2.0	0.2	25-28	-27	-18	1000	5.0	12
ROS-960-419	866	960	+4.0	0.5	5.0	-86	-113	-134	-154	0.8	0.6	25-29	-19	-10	155000	5.0	30
ROS-995-119	965	995	+4.5	0.5	5.0	-87	-111	-132	-152	0.8	0.5	16	-24	-10	90000	5.0	32
ROS-1000C-319	1000	1000	+1.0	0.5	5.0	-96	-126	-146	-162	0.1	0.04	5	-22	-14	150000	6.0	35
ROS-1000C-519	1000	1000	-1.0	0.5	5.0	-98	-125	-145	-164	0.06	0.01	5	-22	-14	80000	5.0	35
ROS-1000PV	900	1000	+6.0	0.5	5.0	-80	-104	-124	-144	2.0	0.7	27-38	-33	-20	1000	5.0	22
ROS-1005-119	995	1030	+0.5	0.5	5.0	-84	-109	-129	-149	0.5	0.5	27	-17	-10	1000	5.0	32
ROS-1012-1PH19	925	1012	+4.5	0.5	5.0	-76	-104	-126	-146	2.0	1.5	55	-24	-13	55000	5.0	35
ROS1074-119	1067	1074	-0.1	0.5	5.0	-81	-106	-127	-147	0.4	0.4	29	-17	-10	100000	5.0	35
ROS-1090-219	1030	1090	+3.5	0.5	5.0	-84	-111	-132	-151	1.0	1.0	24-30	-24	-12	90000	5.0	35
ROS-1135-119	1125	1145	+3.0	0.5	5.0	-86	-114	-135	-154	0.4	0.1	15	-30	-20	1000	5.0	32
ROS-1185-119	1185	1185	+3.0	0.5	5.0	-83	-108	-128	-148	1.0	0.2	30	-20	-12	120000	5.0	35
ROS-1215-119	1205	1260	+3.0	0.5	5.0	-84	-108	-129	-149	0.7	0.5	24	-28	-22	80000	5.0	30
ROS-1250W-119	830	1250	+0.5	0.5	5.0	-69	-94	-117	-138	0.5	4.5	74-152	-33	-15	70000	5.0	25

Additional 5V Tuning for PLL IC's models, see pages 154-155



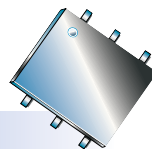


VOLTAGE CONTROLLED OSCILLATORS 50 Ω

600 MHz to 6840 MHz

MODEL PREFIX	FREQUENCY (MHz)		POWER OUTPUT (dBm)	TUNE VOLTAGE (V)		PHASE NOISE (dBc/Hz) SSB@ offset frequencies: Typ.				PULLING (MHz) pk-pk @12 dB	PUSHING (MHz/V)	TUNING SENSITIVITY (MHz/V)	HARMONICS (dBc)		3 dB MOD. BANDWIDTH (kHz)	POWER SUPPLY						
	Min.	Max.		Typ.	Min.	Max.	1 kHz	10 kHz	100 kHz				1 MHz	Typ.		Typ.	Typ.	Typ.	Max.	Typ.	Voltage Norm.	Current (mA) Max.
5 V TUNING for PLL IC's																						
ROS-1270-1PH19	1150	1270	+3.0	0.5	5.0	-80	-105	-126	-146	3.0	0.5	34-40	-18	-10	120000	5.0	35					
ROS-1330-1PH19	1210	1330	+3.0	0.5	5.0	-82	-106	-128	-145	2.5	0.5	39-43	-18	-10	100000	5.0	35					
ROS-1344-119	1296	1344	+2.0	0.5	5.0	-85	-111	-123	-151	0.2	0.1	19	-25	-15	100000	5.0	35					
ROS-1357	1338	1357	0.0	0.5	5.0	-86	-110	-131	-151	0.3	0.4	12	-22	-13	400000	5.0	37					
ROS-1435PV	1375	1435	+3.0	0.5	5.0	-78	-101	-121	-141	4.0	1.7	20-30	-26	-18	5000	5.0	20					
ROS-1505-519	1505	1505	-0.50	0.5	0.5	-85	-111	-132	-150	0.5	0.5	17	-19	-10	100000	5.0	35					
ROS-1540-419	1505	1540	+4.0	0.5	5.0	-83	-110	-131	-152	1.0	0.5	20-30	-16	—	150000	5.0	35					
ROS-1590-319	1590	1590	+0.5	0.5	5.0	-86	-112	-132	-151	0.4	0.6	17	-23	-15	100000	5.0	33					
ROS-1600PV	1520	1600	+7.0	0.5	5.0	-75	-100	-120	-140	10.0	3.0	25-38	-26	-16	1000	5.0	25					
ROS-1605PV	1500	1605	0.0	0.5	5.0	-74	-98	-118	-138	6.0	0.8	40-50	-17	-8	8000	3.3	16					
ROS-1631-119	1460	1631	0.0	0.5	5.0	-74	-101	-122	-142	2.0	0.5	59-78	-21	-12	170000	5.0	28					
ROS-1640-119	1580	1640	+1.0	0.5	5.0	-82	-106	-127	-147	0.5	0.5	35	-15	—	170000	5.0	30					
ROS-1660	1630	1660	+0.5	0.5	5.0	-83	-107	-127	-147	0.5	1.0	33	-19	-10	180000	5.0	30					
ROS-1700-819	1690	1740	0.0	0.5	5.0	-86	-110	-130	-150	0.1	0.3	23	-20	-10	100000	5.0	40					
ROS-1750-919	1680	1750	+3.0	0.5	5.0	-81	-106	-126	-146	2.5	1.0	32-36	-16	-10	160000	5.0	22					
ROS-1800	1700	1800	+3.0	0.5	5.0	-77	-101	-122	-142	1.5	0.7	40-57	-32	-20	170000	5.0	30					
ROS-1836	1824	1836	+4.0	0.5	5.0	-86	-112	-132	-152	0.2	0.2	18	-30	-20	90000	5.0	40					
ROS-1850-519	1830	1850	-0.5	0.5	5.0	-86	-111	-132	-146	0.1	0.5	17	-29	-20	145000	7.0	35					
ROS-1850-819	1847	1850	+5.0	0.5	5.0	-85	-109	-130	-150	0.1	0.4	18	-18	-12	130000	8.0	35					
ROS-1910-419	1855	1910	+3.5	0.5	5.0	-83	-107	-127	-147	0.5	1.0	25-29	-27	-18	160000	5.0	30					
ROS-1960-219	1960	1966	+5.0	0.5	5.0	-93	-121	-141	-161	0.50	0.05	8.0	-26	-17	190000	5.0	40					
ROS-2000-1619	2000	2000	+1.5	0.5	5.0	-81	-106	-127	-147	2.0	0.3	22	-20	-10	70000	5.0	35					
ROS-2015	1975	2015	+7.5	0.5	5.0	-85	-108	-129	-149	0.6	1.0	16-18	-30	-20	110000	5.0	35					
ROS-2045-219	1900	2000	+6.30	0.5	5.0	-74	-101	-122	-143	6.0	0.2	42-56	-20	-10	60000	5.0	35					
ROS-2070	2020	2070	+6.0	0.5	5.0	-84	-107	-128	-148	0.8	0.6	21	-30	-20	110000	5.0	35					
ROS-2082-119	1780	2082	+6.6	0.5	5.0	-69	-97	-118	-139	9.0	1.0	110-130	-24	-14	270000	5.0	27					
ROS-2085-119	2095	2115	+4.0	0.5	5.0	-81	-106	-126	-146	3.0	0.3	30	-20	-10	60000	5.0	35					
ROS-2168-119	2112	2168	+2.0	0.5	5.0	-82	-1.0	-125	-145	1.5	0.5	30-35	-32	-20	170000	5.0	33					
ROS-2210-419	2200	2240	+0.4	0.5	5.0	-83	-106	-126	-146	1.50	0.50	21-25	-20	-10	60000	5.0	35					
ROS-2243C	2185	2243	+4.8	0.5	5.0	-86	-114	-135	-154	0.70	0.10	21	-29	-20	85000	4.75	39					
ROS-2252	2182	2245	+3.0	0.5	5.0	-84	-107	-128	-146	0.5	1.0	21-26	-30	-20	20000	4.75	35					
ROS-2299-119	2265	2300	+4.0	0.5	5.0	-84	-109	-129	-149	0.6	0.6	20	-25	-15	200000	5.0	43					
ROS-2310	2290	2310	+7.0	0.5	5.0	-90	-116	-136	-157	1.0	0.10	7-9	-22	-12	180000	5.0	34					
ROS-2390	2320	2390	+4.5	0.5	5.0	-81	-106	-127	-147	1.0	0.2	31-35	-17	—	180000	5.0	43					
ROS-2390-219	2380	2420	+0.70	0.5	5.0	-80	-106	-127	-147	0.50	0.80	31-35	-20	-10	50000	5.0	35					
ROS-2420-219	2169	2420	-0.5	0.5	5.0	-70	-97	-118	-139	2.0	0.2	90-96	-25	-17	260000	5.0	30					
ROS-2435	2425	2435	+7.0	0.5	4.5	-87	-115	-135	-156	1.0	0.04	16.0	-20	-10	200000	8.0	32					
ROS-2470-119	2430	2470	+9.5	0.5	5.0	-81	-106	-126	-146	2.0	0.5	27-31	-22	-11	200000	8.0	40					
ROS-2500-2119	2497	2510	+6.0	0.5	5.0	-82	-103	-124	-144	1.5	1.0	18	-25	-15	30000	8.0	37					
ROS-2500-2319	2200	2495	+4.5	0.5	5.0	-68	-96	-119	-139	6.0	2.0	130	-25	-15	100000	5.0	35					
ROS-2510-219	2250	2510	+4.5	0.5	5.0	-70	-96	-119	-139	5.0	1.5	100	-23	-12	400000	5.0	40					
ROS-2550-519	2280	2550	+4.5	0.5	5.0	-68	-94	-115	-135	7.0	2.0	96-126	-20	-10	100000	5.0	30					
ROS-2625-119	2370	2600	+4.0	0.5	5.0	-70	-98	-119	-139	4.0	0.6	101-111	-20	—	560000	5.0	30					
ROS-2650-519	2450	2650	-0.50	0.5	5.0	-69	-97	-118	-138	3.0	2.0	105	-25	-15	120000	5.0	30					
ROS-2660-319	2620	2660	+2.5	0.5	5.0	-83	-108	-129	-148	0.40	0.30	17-20	-19	-10	200000	5.0	45					
ROS-2770C	2715	2770	+0.40	0.5	5.0	-83	-110	-132	-152	0.9	0.7	28-32	-25	-15	90000	5.0	38					
ROS-2840-219	2835	2860	+4.5	0.5	5.0	-79	-105	-126	-146	0.4	1.5	16	-25	-15	110000	5.0	40					
ROS-2920-219	2820	2920	+4.0	0.5	5.0	-74	-101	-123	-143	1.0	1.0	53-56	-23	-15	200000	5.0	30					
ROS-2930	2840	2930	+7.0	0.5	5.0	-69	-96	-117	-138	1.3	2.7	85	-29	-20	450000	5.0	40					
ROS-2940C	2935	2940	+3.8	0.5	5.0	-89	-116	-136	-156	0.3	0.7	14	-17	-10	75000	7.0	40					
ROS-2952	2748	2952	+4.3	0.5	5.0	-70	-98	-119	-139	1.5	1.2	84-89	-25	-15	40000	5.0	40					
ROS-3000-619	2800	2970	+10.0	0.5	5.0	-74	-102	-123	-144	4.0	0.1	59-65	-25	-15	280000	5.0	36					
ROS-3044	2885	3044	+8.0	0.5	5.0	-76	-104	-125	-145	4.5	1.0	64-72	-28	-18	80000	5.0	40					





MODEL PREFIX	FREQUENCY (MHz)		POWER OUTPUT (dBm)	TUNE VOLTAGE (V)		PHASE NOISE (dBc/Hz) SSB@ offset frequencies: Typ.				PULLING (MHz) pk-pk @12 dBr	PUSHING (MHz/V)	TUNING SENSITIVITY (MHz/V)	HARMONICS (dBc)		3 dB MOD. BANDWIDTH (kHz)	POWER SUPPLY	
	Min.	Max.		Min.	Max.	1 kHz	10 kHz	100 kHz	1 MHz				Typ.	Max.		Voltage (V) Norm.	Current (mA) Max.
ROS-3080-1PH19	2920	3080	+3.0	0.5	5.0	-71	-95	-116	-136	2.0	3.0	90	-22	-11	4000	5.0	37
ROS-3146-119	3000	3110	+9.0	0.5	5.0	-73	-102	-123	-144	4.5	2.5	56-64	-25	-15	200000	5.0	43
ROS-3127C	3082	3127	+4.2	0.5	5.0	-84	-111	-133	-152	0.70	0.50	26-31	-26	-15	100000	5.0	35
ROS-3214-119	3074	3200	+2.0	0.5	4.5	-77	-102	-123	-143	2.5	0.3	45-57	-21	-15	20000	5.0	40
ROS-3220-319	3050	3220	+2.5	0.5	5.0	-71	-96	-117	-137	1.0	2.5	74	-20	-10	340000	5.0	37
ROS-3233	3008	3233	+3.0	0.5	5.0	-71	-97	-119	-140	1.0	2.5	84-91	-30	-20	350000	5.0	40
ROS-3267	3259	3267	+4.0	0.5	5.0	-86	-111	-132	-152	0.50	1.0	16	-14	—	100000	5.0	40
ROS-3270-119	3150	3270	+2.5	0.5	5.0	-71	-96	-116	-137	2.5	4.5	82	-20	-12	340000	5.0	33
ROS-3320C-219	3220	3320	+4.5	0.5	5.0	-76	-105	-127	-147	2.0	0.8	50-58	-14	—	120000	5.0	45
ROS-3360-319	3160	3360	+3.5	0.5	5.0	-71	-98	-120	-140	1.0	1.0	82	-18	-10	650000	5.0	43
ROS-3412C	3312	3412	-0.60	0.5	5.0	-77	-105	-127	-148	0.8	0.2	50-65	-15	-10	110000	5.0	40
ROS-3432-119	3231	3432	+3.0	0.5	5.0	-72	-99	-120	-140	0.6	0.3	81-86	-20	-10	120000	5.0	45
ROS-3550	3350	3550	+3.5	0.5	5.0	-71	-97	-118	-139	1.5	0.7	77-82	-22	-13	720000	5.0	42
ROS-3600	3500	3600	+3.5	0.5	5.0	-73	-97	-118	-138	1.5	2.5	80	-19	-10	320000	5.0	37
ROS-3600C	3500	3600	-0.20	0.5	5.0	-77	-105	-126	-146	1.0	0.30	52-66	-16	-10	105000	5.0	40
ROS-3730C	3575	3730	2.20	0.5	5.0	-77	-104	-126	-146	1.8	0.30	52-68	-16	-10	115000	5.0	43
ROS-3800	3630	3800	+5.0	0.5	5.0	-72	-97	-119	-139	1.5	2.0	73-78	-31	-22	500000	5.0	40
ROS-3877-119	3676	3877	+3.0	0.5	5.0	-71	-98	-119	-139	0.8	0.5	80-87	-20	-10	150000	5.0	46
ROS-3970-2PH19	3790	3970	+3.5	0.5	5.0	-71	-96	-117	-137	1.5	4.0	77-85	-23	-15	30000	5.0	31
ROS-3997	3989	3997	+5.7	0.5	5.0	-78	-105	-129	-149	1.5	0.30	14	-19	-10	90000	5.0	33
ROS-4077-119	3876	4077	+4.0	0.5	5.0	-70	-97	-118	-138	1.5	2.0	72-78	-22	-14	120000	5.0	48
ROS-4300-1PH19	4150	4300	+4.5	0.5	5.0	-65	-91	-112	-132	9.5	2.0	68-77	-26	-18	330000	5.0	34
ROS-4303-119	4195	4415	+4.6	0.5	5.0	-69	-96	-117	-137	3.0	0.5	78-90	-25	-15	180000	5.0	50
ROS-4424-119	4420	4430	+7.5	0.5	5.0	-76	-99	-119	-139	6.0	1.4	21	-27	-17	100000	5.0	51
ROS-4540-119	4340	4540	+4.0	0.5	5.0	-66	-92	-113	-133	5.0	1.0	75-85	-28	-18	120000	5.0	45
ROS-4725-119	4585	4725	+2.5	0.5	5.0	-74	-104	-125	-144	2.0	4.0	73-92	-25	-14	80000	5.0	30
ROS-5150-119	4880	5150	+3.5	0.5	5.0	-69	-95	-116	-136	1.0	2.0	74-90	-30	-20	50000	5.0	53
ROS-5150-319	5020	5145	+3.5	0.5	5.0	-73	-104	-126	-146	0.7	2.5	75-90	-30	-18	120000	5.0	32
ROS-5200C-119	5194	5200	+3.5	0.5	5.0	-73	-103	-124	-145	1.0	3.0	90	-35	-15	130000	5.0	35
ROS-5363C-119	5223	5363	0.0	0.5	5.0	-75	-102	-122	-140	0.5	1.0	55-70	-15	-14	180000	5.0	35
ROS-5490C-119	5340	5490	+0.5	0.5	5.0	-74	-102	-122	-142	0.5	1.5	58-76	-27	-18	175000	5.0	32
ROS-5540C-119	5340	5540	+0.5	0.5	5.0	-74	-103	-124	-144	0.4	0.8	64-83	-27	-15	100000	5.0	35
ROS-5580-119	5440	5580	-0.5	0.5	5.0	-75	-101	-123	-143	0.3	0.8	68-72	-26	-19	180000	5.0	35
ROS-5776-119	5726	5826	+1.5	0.5	5.0	-75	-102	-122	-142	0.5	3.0	59-78	-28	-18	130000	5.0	33
ROS-6030C-219	5890	6010	+2.0	0.5	5.0	-73	-102	-124	-144	0.7	2.0	62-80	-36	-22	220000	5.0	28
ROS-6520C-119	6385	6520	+1.30	0.5	5.0	-74	-103	-123	-143	0.7	2.50	62-95	—	-13	110000	5.0	38
ROS-6640C-119	6520	6640	+1.0	0.5	5.0	-72	-100	-121	-141	1.0	3.0	90-107	—	-12	150000	5.0	38
ROS-6740C-119	6640	6740	+2.0	0.5	5.0	-70	-97	-120	-140	1.0	3.0	75-90	-30	-18	300000	5.0	35
ROS-6840C-119	6740	6840	+1.0	0.5	5.0	-70	-97	-120	-140	1.0	3.50	90-102	—	-12	260000	5.0	38
SOS-600-519	600	610	-6.5	0.5	5.0	-80	-106	-126	-146	0.2	0.1	40-47	-19	-10	140000	3.0	12
SOS-638PV-119	614	638	+1.0	0.5	5.0	-83	-112	-133	-152	0.2	0.5	21-22	-22	-14	140000	5.0	20
SOS-704PV-119	677	707	0.0	0.5	5.0	-89	-113	-133	-152	0.3	0.3	12-16	-13	—	30000	5.0	20
SOS-800PV-119	776	800	-0.50	0.5	5.0	-88	-112	-132	-152	0.30	0.30	11-15	-14	-10	10000	5.0	20
SOS-810	790	810	+2.5	0.5	5.0	-75	-97	-117	-137	1.5	0.6	57-60	-25	-15	30000	3.0	13
SOS-822PV-119	795	825	+1.0	0.5	5.0	-84	-107	-127	-147	0.4	0.2	27	-25	-15	130000	5.0	20
SOS-862PV-119	845	862	0.0	0.5	5.0	-83	-109	-129	-149	0.1	0.6	26	-30	-24	130000	5.0	18
SOS-915-119	832	998	+5.0	0.5	5.0	-66	-91	-117	-137	4.0	5.0	100	-19	-10	110000	4.0	32
SOS-1000-519	980	1050	-6.3	0.5	5.0	-74	-99	-120	-140	0.50	0.50	57-60	-35	-25	335000	3.0	14
SOS-1225-119	1185	1225	-0.20	0.5	5.0	-79	-105	-125	-145	2.0	0.70	42	-17	-10	75000	3.0	14
SOS-1400-219	1355	1430	+3.0	0.5	5.0	-74	-98	-119	-139	6.0	3.0	50-61	-35	-25	60000	3.0	15
SOS-1505-119	1430	1520	+3.5	0.5	5.0	-69	-94	-115	-136	1.5	1.0	69-75	-30	-17	160000	3.0	15
SOS-4250-119	4120	4280	+2.5	0.5	5.0	-69	-95	-116	-136	4.5	0.4	70-78	-22	-13	500000	5.0	40

