



电子元器件系列 (中国.厦门)

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Signal Source Product Guide

3 R D Q U A R T E R

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CRO Based VCO Modules

Part Number	Frequency (MHz)	Tuning Voltage (Vdc)	Kvco (MHz/V)	Output Power (dBm)	ϕ_n @10kHz (dBc/Hz)	2nd Harmonic (dBc)	Vcc (Vdc)	Icc (mA)	Operating Temperature (°C)	Pushing (MHz/V)	Pulling (MHz)
CRO2343A	2310 to 2376	0.5-4.5	23	1±2	-110	-10	5	20	-10 to 85	<1	<1
CRO2333A	2333 to 2333	0.5-4.5	15	2±3	-116	-10	5	22	-40 to 8+5	<1	<1
CRO2565A	2350 to 2780	1-14	40	5±3	-104	-13	6	24	-40 to 85	<4	<3
CRO2390A	2360 to 2420	0.5-4.5	18	1±2	-111	-11	5	18	-10 to 85	<1	<1
CRO2490A	2440 to 2540	0.5-4.5	33	3±3	-108	-15	5	19	-40 to 85	<1	<1
CRO2450A	2450 to 2450	0.5-4.5	4	3±2	-116	-10	5	19	-10 to 75	<0.5	<0.5
CRO2488A	2488 to 2488	0.5-4.5	6	3.5±2.5	-115	-10	5	20	-40 to 85	<1	<1
CRO2530A	2500 to 2560	0.5-4.5	25	1±3	-112	-15	5	17	-30 to 75	<1	<1
CRO2570A	2520 to 2620	0.5-4.5	32	3±3	-108	-20	5	19	-40 to 85	<1	<1
CRO2580A	2560 to 2600	1.0-4.5	25	3±3	-111	-15	5	20	-40 to 85	<1	<1
CRO2600A	2600 to 2800	1-15	22	10±3	-110	-15	10	34	-40 to 85	<0.5	<0.5
CRO2640A	2610 to 2670	0.5-4.5	25	3.5±2.5	-112	-20	5	20	-40 to 85	<1	<1
CRO2645A	2615 to 2675	0.5-4.5	23	3±2	-109	-15	5	19	-40 to 85	<1	<1
CRO2653A	2620 to 2686	0.5-4.5	23	3±2	-109	-15	5	20	-10 to 85	<1	<1
CRO2780A	2650 to 2910	0.5-15	20	3±3	-111	-10	10	34	-40 to 85	<0.5	<0.5
CRO2660A	2660 to 2660	0.5-4.5	5	3±2	-116	-15	5	19	-20 to 70	<0.5	<0.5
CRO2880A	2760 to 3000	1-15	18	12.5±2.5	-110	-20	10	29	-40 to 85	<1	<1
CRO2770A	2770 to 2770	0.5-4.5	5	4±2	-117	-13	5	22	-20 to 80	<1	<1
CRO2845A	2770 to 2920	0.5-4.5	41	10±3	-107	-20	5	20	0 to 70	<1	<2
CRO2862A	2778 to 2945	0.1-16	18	5±2	-111	-11	8	30	-40 to 85	<1	<0.5
CRO2820A	2800 to 2840	1.0-4.5	23	3±3	-110	-15	5	18	-40 to 85	<2	<2
CRO2851A	2851 to 2851	0.5-4.5	5	6.25±2.25	-114	-16	5	18	-40 to 85	<0.5	<0.5
CRO2900A	2900 to 2900	0.5-4.5	6	3.5±1.5	-114	-17	5	18	-30 to 80	<1	<1
CRO2925A	2900 to 2950	0.5-4.5	28	5±2	-109	-20	5	22	-40 to 85	<2	<2
CRO2985A	2955 to 3014	0.5-4.5	22	6±3	-110	-15	5	20	-40 to 85	<1	<1
CRO3020A	2955 to 3088	0.5-10	30	7±3	-107	-20	5	20	-20 to 70	<1.5	<1
CRO3040A	3040 to 3040	0.5-4.5	6	7±2	-115	-15	5	19	-40 to 85	<0.5	<0.5
CRO3060A	3050 to 3070	0.5-4.5	8	7±2	-115	-20	5	22	-40 to 85	<1	<1
CRO3064A	3064 to 3064	0.5-4.5	9	4±3	-116	-18	5	20	-40 to 85	<1	<1
CRO3100A	3070 to 3130	0.5-4.5	20	3.5±2.5	-112	-7	5	21	-40 to 85	<1	<1
CRO3093A	3093 to 3093	0.5-4.5	9	6±2	-115	-15	5	17	-40 to 85	<1	<1
CRO3120A	3120 to 3120	0.5-4.5	7	1.25±2.25	-114	-15	5	19	-55 to 85	<0.5	<0.5
CRO3150A	3125 to 3175	0.5-4.5	28	4.5±2.5	-111	-15	5	17	-40 to 85	<2	<1
CRO3200B	3125 to 3275	0.5-4.5	50	5±3	-102	-20	6	27	-40 to 85	<4	<0
CRO3200A	3200 to 3200	0.5-4.5	9	9±2	-117	-15	5	20	-40 to 70	<0.5	<0.5
CRO3250B	3225 to 3275	0.5-4.5	15	6±2	-113	-17	5	22	-40 to 85	<2	<0.5
CRO3250A	3249 to 3251	0.5-4.5	13	2±2	-113	-15	5	19	-40 to 85	<0.5	<0.5
CRO3262A	3261 to 3263	0.5-4.5	14	2±2	-112	-18	5	19	-40 to 85	<1	<0.5
CRO3300A	3300 to 3300	0.5-4.5	13	3±3	-111	-15	5	19	-40 to 85	<0.5	<0.5
CRO3580A	3579 to 3581	0.5-4.5	4	2±2	-112	-20	5	19	-40 to 85	<0.5	<0.5
CRO4000B	3980 to 4020	0.5 - 4.5	13	4±3	-106	-15	4.75	17	-30 to 85	<0.5	<1
CRO4260A	4250 to 4270	0.5-4.5	10	3.5±3.5	-107	-10	5	21	-40 to 85	<1	<1
CRO4350A	4350 to 4350	1-4	10	0±3	-107	-15	5	15	-40 to 85	<2	<1
CRO4400A	4380 to 4420	0.5 - 4.5	16	3±2	-105	-10	4.75	18	-30 to 70	<2	<0.5
CRO4385A	4384 to 4386	1-4	8	0.5±2.5	-108	-10	5	21	-40 to 85	<2	<1
CRO4500A	4499 to 4501	0.5-4.5	12	2±2	-104	-15	5	20	-40 to 85	<2	<1
CRO6000Z	5990 to 6010	0.5 - 4.5	18	4±2	-108	-18	5	122	-40 to 85	<2	<0.05
CRO6835Z	6834 to 6835	0.5-4.5	18	3±3	-102	-18	5	123	-40 to 85	<2	<0

* CRO and CLV Series VCOs utilize the MINI package.

Low Noise CLV Series VCOs

Part Number	Frequency (MHz)	Tuning Voltage (Vdc)	Kvco (MHz/V)	Output Power (dBm)	ϕ_n @10kHz (dBc/Hz)	2nd Harmonic (dBc)	Vcc (Vdc)	Icc (mA)	Operating Temperature (°C)	Pushing (MHz/V)	Pulling (MHz)
CLV0600A	530 to 670	1 - 4.5	51	0±3.25	-110	-8	5	23	-40 to 85	<1	<1
CLV0575A	560 to 590	1-4	23	2±2	-112	-15	5	23	-30 to 80	<1	<1
CLV0625E	575 to 675	0.5-4.5	43	0±3	-110	-8	5	26	-40 to 85	<5	<5
CLV0620E	620 to 625	0.5-2.5	29	3.75±2.25	-111	-20	3	18	-40 to 85	<1	<1
CLV0700E	680 to 720	0.5-4.5	29	2.25±2.25	-110	-10	5	19	-40 to 85	<1	<1
CLV0730A	713 to 748	1-4	30	5.5±3	-111	-15	5	18	-40 to 85	<1	<1
CLV0798A	730 to 920	1-15	28	1.75±3.75	-111	-12	5	18	-40 to 85	<1	<1
CLV0860A	730 to 990	1-15	28	3±4	-111	-15	5	17	-40 to 85	<1	<1
CLV0769E	734 to 804	1-4	40	2.5±2.5	-112	-9	5	20	-40 to 85	<5	<2
CLV0750E	750 to 830	0.5 - 4.5	32	4±2	-109	-10	5	16	-30 to 75	<1	<1
CLV0795E	797 to 803	1-4	18	-6.5±1.5	-112	-28	5	11	-30 to 85	<1	<1
CLV0835E	800 to 835	0.5-4.5	25	1.75±2.75	-113	-17	5	22	-40 to 85	<1	<0.2
CLV0815M	806 to 824	0.5-4.5	26	2.5±2.5	-112	-20	5	21	-40 to 85	<2	<4
CLV0875E	850 to 900	0.5-4.5	25	1±2.	-113	-17	5	19	-10 to 85	<1	<0.1
CLV0950E	865 to 1035	1-10	30	6.75±2.75	-114	-15	5	25	-40 to 85	<1	<3
CLV1025E	865 to 1180	1-14	29	5.5±4.5	-112	-12	5	28	-40 to 85	<3	<3
CLV0925E	896 to 959	0.3-4.7	22	-5±2	-114	-24	5	12	-30 to 85	<3	<3
CLV1000E	900 to 1100	1-10	27	4±3	-111	-14	5	22	-40 to 85	<2	<2
CLV0910A	902 to 928	0.5-3	27	1±2	-112	-15	3.3	15	-40 to 85	<1	<1
CLV0945A	936 to 953	0.5-4.5	33	3±2	-114	-15	4	7	-40 to 85	<5	<5
CLV0975A	950 to 1000	0.5-4.5	26	0±2	-110	-19	5	18	-40 to 85	<1	<1
CLV0980E	973 to 986	0.5-4.5	18	0±2	-117	-20	5	17	-40 to 85	<1	<1
CLV1015E	995 to 1032	0.6-5	19	-3±2	-111	-30	4.5	10	-40 to 85	<1	<2
CLV1000A	998 to 1001	0.5-2.5	17	-2.25±2.25	-116	-18	3	15	-30 to 85	<1	<1
CLV1080A	1020 to 1150	0.5 - 4.75	40	2.5±2.5	-107	-15	5	20	-20 to 75	<2	<2
CLV1050E	1031 to 1071	1-4	22	1.5±2.5	-113	-20	5	25	-10 to 85	<1	<0.1
CLV1100E	1035 to 1180	1-10	22	4±4	-111	-15	5	22	-40 to 85	<3	<3
CLV1052M	1048 to 1058	0.5-4.5	19	4±3	-111	-45	5	20	-30 to 85	<2	<5
CLV1085E	1050 to 1086	0.5-4.5	21	-1.5±2.5	-112	-20	5	20	-40 to 85	<1	<0.2
CLV1137A	1100 to 1175	0.5-4.5	37	1.5±2.5	-111	-19	5	20	-40 to 85	<5	<5
CLV1150E	1100 to 1200	0.3-4.7	39	2±2	-111	-20	5	22	-40 to 85	<1	<1
CLV1225A	1180 to 1270	0.5-4.5	37	1.5±3.5	-110	-20	5	25	-40 to 85	<1	<1
CLV1277A	1213 to 1341	0.5-4.5	38	2.5±2.5	-108	-15	5	22	-40 to 85	<1	<1
CLV1215E	1218 to 1220	0.5-4.5	23	2.5±2	-111	-20	5	25	-40 to 85	<1	<1
CLV1310A	1260 to 1370	0.5-4.75	34	3.5±2.5	-110	-10	5	20	-20 to 75	<1	<1
CLV1320E	1295 to 1335	1-5	18	-4.5±3.5	-111	-30	5	27	-40 to 85	<1	<1
CLV1350E	1295 to 1385	0.5-4.5	36	0±3	-109	-12	5	26	-40 to 85	<1	<1
CLV1360E	1345 to 1375	0.5-4.5	19	-3±3	-110	-15	5	21	-40 to 85	<2.5	<2.5
CLV1385E	1370 to 1400	0.5-4.5	21	3.75±2.75	-111	-15	5	20	-40 to 85	<2	<2
CLV1410E	1390 to 1410	0.5-4.5	22	3.5±3	-110	-15	5	19	-45 to 85	<1	<1
CLV1440E	1400 to 1486	0.5-4.5	38	0±3	-108	-10	5	25	-40 to 85	<3	<3
CLV1425E	1410 to 1440	1-5	15	-1.5±3	-111	-28	5	27	-40 to 85	<2	<2
CLV1455E	1440 to 1470	1-5	16	-2.5±4	-111	-20	5	25	-40 to 85	<1	<1
CLV1585E	1487 to 1587	0.25-4.5	35	5.5±2.5	-110	-17	5	23	-40 to 85	<2	<3
CLV1498E	1497 to 1499	0.5-4.5	33	5±3	-106	-15	5	17	-40 to 85	<2	<4
CLV1525E	1500 to 1550	0.3-4.7	25	0.5±2.5	-110	-20	5	25	-40 to 85	<3	<3
CLV1545E	1500 to 1580	0.5-4.5	35	0±3	-110	-10	5	18	-40 to 85	<0.4	<1
CLV1540E	1520 to 1565	0.5-4.5	23	1.5±3	-110	-20	5	24	-40 to 85	<2	<2
CLV1600E	1565 to 1630	0.5-4.5	42	-1.5±3	-107	-18	5	22	-40 to 85	<5	<5
CLV1605E	1572 to 1635	0.25-4.5	32	3.75±2.25	-110	-15	5	22	-40 to 85	<1	<1
CLV1635A	1600 to 1670	0.5-4.5	34	2.5±2.5	-110	-15	5	20	-40 to 85	<1	<1

* CLV Series VCOs utilize the MINI package.

Low Cost MINI Series VCOs

Part Number	Frequency (MHz)	Tuning Voltage (Vdc)	Kvco (MHz/V)	Output Power (dBm)	ϕ_n @10kHz (dBc/Hz)	2nd Harmonic (dBc)	Vcc (Vdc)	Icc (mA)	Operating Temperature (°C)	Pushing (MHz/V)	Pulling (MHz)
Wide band/Octave Tuning											
V150ME03	100 to 200	0-12.5	10	7±5	-111	-10	12	26	-40 to 85	<1	<1
V350ME01	350 to 700	0-10	45	5±4	-100	-4	5	18	-30 to 85	<5	<5
V560MC03	400 to 800	0-12	47	6.5±5.5	-104	-3	5	17	-10 to 70	<6	<2
V560TF03	400 to 800	0-12	45	6.5±5.5	-100	-15	5	19	-10 to 70	<2	<6
V560ME09	400 to 800	0.4-4.6	124	0±3	-101	-15	5	13	-40 to 85	<5	<1
V560MC10	400 to 720	0-8	50	7±6	-104	-5	10	18	0 to 70	<1	<2
V637ME02-LF	450 to 900	0.5-10	53	8.5±5.5	-106	-5	10	20	-40 to 85	<2	<2
V637MC02	465 to 810	0.5-8	56	8.5±5.5	-106	-5	12	25	0 to 70	<2	<3
V500ME01	500 to 1000	0.8-13.5	46	4±4	-100	-40	12	21	-40 to 85	<3	<2
V585ME41	720 to 1750	0.75-21	55	5±3	-100	-5	5	17	-40 to 85	<1	<9
V585ME30	800 to 1600	1-21	60	8±3	-101	-5	11.5	16	-40 to 85	<2	<15
V585ME30-LF	800 to 1600	1-21	60	8±3	-103	-5	11.5	16	-40 to 85	<2	<8
V585ME40	800 to 1650	1-21	58	5.5±3.5	-99	-5	5	16	-40 to 85	<5	<15
V585ME20	925 to 1650	3-21	60	7±2.5	-102	-8	11.5	16	-40 to 85	<2	<14
V585ME08	950 to 1900	0-12	91	5.5±2.5	-99	-8	10	15	-30 to 80	<5	<15
V585ME09	950 to 1750	1-20	64	7.25±2.75	-100	-5	10	16	-40 to 85	<2	<15
V585ME48	950 to 2050	0-15	81	2±3	-99	-30	10	19	-40 to 80	<2	<5
V585ME62	950 to 2050	1-14	93	6.5±2.5	-100	-15	11	17	0 to 75	<1	<7
V585ME42	990 to 1815	0.5-21	60	7±4	-99	-10	5	20	-40 to 85	<2	<10
V585ME06	1000 to 2000	1-20	75	5.5±2.5	-100	-5	10	15	-40 to 80	<10	<10
V585ME16	1000 to 2000	1-20	67	5.5±2.5	-96	-5	10	15	-40 to 80	<5	<15
V585ME21	1000 to 1760	0-9.5	95	8.5±2.5	-101	-5	10	22	-40 to 85	<4	<15
V585ME46	1000 to 2000	1-20	79	5.5±2.5	-100	-5	10	15	-40 to 85	<1	<10
V585ME51	1000 to 2050	1-15	78	5.5±3.5	-100	-5	10	15	-40 to 80	<2	<7
V585ME05	1100 to 1900	0.8-20	74	8.75±2.75	-100	-10	10	25	-10 to 85	<5	<10
V585ME07	1100 to 2100	1-20	67	5.5±2.5	-98	-5	10	15	-40 to 80	<5	<15
V585ME07-LF	1100 to 2100	1-20	64	5.5±2.5	-98	-5	10	15	-40 to 80	<5	<8
V585ME18	1100 to 1900	0.8-20	65	6±3	-98	-15	8	17	-30 to 80	<5	<15
V585ME28	1200 to 2200	1-20	70	8.25±2.75	-98	-13	5	21	-40 to 85	<5	<18
V585ME55	1200 to 2200	1-20	73	6.5±2.5	-99	-13	5	20	-40 to 85	<3	<15
V585ME59	1200 to 2200	1-20	73	8±3	-99	-10	8	20	-40 to 85	<3	<18
V585ME25	1250 to 2050	1-20	62	7±2.5	-95	-15	5	18	-10 to 75	<3	<15
V600ME02	1250 to 2350	0-20	73	8±4	-96	-10	5	22	-5 to 85	<6	<25
V585ME52	1350 to 2350	2-21	64	13±3	-96	-10	12	30	-10 to 85	<7	<23
V586ME10	1350 to 2400	0.5 - 14.5	68	4.25±2.25	-99	-6	10	16	-30 to 70	<3	<8
V585ME47	1600 to 2700	0-20	75	5±5	-99	-25	10	23	-30 to 70	<5	<7
V600ME07	1600 to 3200	0.5-20	120	10±3	-86	-15	15	36	-20 to 70	<6	<8
V600ME10	1600 to 3200	0.5-20	112	10±2	-90	-15	5	35	-20 to 70	<16	<10
V600ME12	2050 to 3550	0-20	108	6±4	-86	-15	5	21	-40 to 85	<10	<10
V950ME07	3900 to 6000	0-20	126	4.5±4.5	-80	-14	5	21	-40 to 85	<14	<36

VHF: 30 MHz-1 GHz

V040ME01	38 to 41	0 - 5	1.2	3.5±3.5	-108	-4	5	18	-30 to 85	<1	<1
V044ME01	42 to 46	0.5-4.5	3	-1±2	-118	-13	5	8	-30 to 85	<1	<1
V061ME01	45 to 77	1-10	4	5.5±4	-116	-4	5	21	-40 to 85	<1	<1
V093ME01	88 to 98.2	0.5-4.5	6	5±5	-123	-18	5	17	-40 to 85	<1	<1
V110ME01	100 to 120	0.5-4.5	11	1.5±1.5	-111	-8	5	19	-45 to 85	<2	<1
V140MC10	104 to 176	1-9.5	12	3±4	-106	-5	10	28	0 to 70	<1	<1
V116MC01	114 to 118	2-4	12	0±3	-114	-7	5	13	-20 to 80	<1	<1
V139ME01	118 to 160	1-16	5	0±3	-115	-8	5	8	-35 to 85	<1	<1
V131MC01	130 to 132	1-9	1	9±2	-122	-10	12	33	0 to 70	<1	<1
V149ME01	139 to 159	0.5-4.5	10	3±3	-115	-6	5	7	-40 to 85	<1	<1
V149MEM1	139 to 159	0.5-4.5	12	0.5±2.5	-112	-7	5	15	-40 to 85	<0.5	<0.5
V180ME01	145 to 215	1 - 9.5	12	4.25±3.75	-107	-5	5	19	-40 to 85	<5	<2
V165ME01	151 to 179	0-4	14	2±3	-109	-15	3.5	9	-40 to 85	<2	<1

Low Cost MINI Series VCOs

Part Number	Frequency (MHz)	Tuning Voltage (Vdc)	Kvco (MHz/V)	Output Power (dBm)	ϕ_n @10kHz (dBc/Hz)	2nd Harmonic (dBc)	Vcc (Vdc)	Icc (mA)	Operating Temperature (°C)	Pushing (MHz/V)	Pulling (MHz)
VHF: 30 MHz-1 GHz (continued)											
V220ME02	200 to 239	0.5-4.5	18	7.5±2.5	-120	-22	5	15	-40 to 85	<0.5	<0.5
V240ME02	200 to 280	1-8	14	4.5±3.5	-108	-10	9	25	-40 to 85	<2	<1.5
V240ME04	200 to 300	1.5-13.5	12	8.5±3.5	-110	-9	15	20	-10 to 70	<1	<1
V240ME01	210 to 270	0.5-4.5	26	1.5±2.5	-104	-10	5	18	-40 to 85	<4	<4
V230ME01	229 to 231	0.5-4.5	3	0±3	-127	-9	5	19	-40 to 85	<0.5	<0
V230ME02	239 to 244	0.5-4.5	3	-1±4	-130	-9	5	19	-40 to 85	<0.5	<0.5
V285ME10	240 to 270	0.5-4.5	15	6±2.5	-105	-8	5	12	-40 to 85	<3	<1
V285ME01	270 to 300	0.5-4.5	20	7.5±2.5	-104	-10	5	22	-40 to 85	<3	<1
V285ME05	275 to 305	0.5-4.5	20	4.75±3.75	-105	-15	4.5	20	-40 to 85	<3	<1
V295ME01	294 to 296	0.75-4.25	5	0±3	-126	-10	5	19	-40 to 85	<0.5	<0
V330ME10	305 to 345	0.5-4.5	21	6.5±3.5	-108	-10	5	13	-40 to 85	<2	<3
V330ME03	310 to 366	0.5-4.5	26	6±3	-106	-13	5	13	-40 to 85	<3	<1
V330ME01	320 to 340	1-4	23	6.5±2.5	-108	-10	5	13	-40 to 85	<3	<2
V330ME04	350 to 395	0.5-4.5	17	6.5±3.5	-108	-20	5	11	-40 to 85	<1	<0.5
V385ME01	360 to 410	0.5-5	39	7.25±2.75	-109	-3	5	15	-30 to 85	<3	<2
V440MC02	370 to 460	0.5-4.5	37	7±3	-107	-3	5	14	-40 to 85	<2	<1
V440ME01	375 to 420	0.5-4.5	27	8.25±1.75	-108	-4	5	15	-40 to 85	<2	<1
V390ME01	380 to 400	0.7-4.2	11	1.5±2.5	-116	-15	5	14	-30 to 85	<2	<0.5
V418ME03	390 to 406	0.5-4.5	6	0±3	-119	-14	4.7	14	-30 to 70	<1	<1
V418MEM1	403 to 433	0.5-4.5	12	0±3	-114	-12	5	13	-40 to 85	<1	<1
V440ME04	410 to 460	1-4	25	7±3	-105	-10	5	14	-40 to 85	<1	<1
V480MEM1	450 to 480	0.5-2.5	25	0±3	-114	-12	3.3	12	-40 to 85	<1	<2
V495ME03	470 to 520	0.5-4.5	24	1±2	-109	-7	2	10	0 to 75	<7	<1
V560ME04	470 to 490	0.5-3.5	58	5±2	-107	-5	5	13	-30 to 85	<2	<1
V512MEM1	480 to 512	0.5-2.5	23	0±2	-113	-12	3.3	10	-40 to 85	<2	<1
V495ME01	485 to 505	0.5-4.5	10	1±3	-114	-7	5	10	-40 to 85	<2	<2
V530ME04	500 to 560	0.5-4.5	10	0±4	-108	-10	2	10	0 to 75	<3	<2
V515ME01	502 to 529	0.5-4.5	10	0±3	-116	-10	5	11	-40 to 85	<5	<5
V530ME01	526 to 541	0.5-4.5	10	0±4	-114	-10	5	9	-40 to 85	<1	<1
V560ME08	540 to 740	0-10	53	8.5±2.5	-105	-15	12	20	-40 to 85	<2	<5
V708ME01	640 to 945	0-9	45	9.5±4.5	-94	-5	9	15	-40 to 85	<3	<4
V580ME08	680 to 820	1-8	33	12.5±3.5	-103	-5	8.4	30	-30 to 75	<2	<10
V700ME02	690 to 710	1-4	22	6.5±1.5	-102	-5	5	15	-40 to 85	<2	<7
V769MEM1	734 to 804	0.5-4.5	22	3.5±2.5	-112	-13	5	22	-40 to 85	<1	<1
V700ME04	740 to 750	1-4	34	3.5±2.5	-107	-9	5	17	-30 to 80	<1	<1
V580ME15	745 to 885	0.5 - 4.5	53	10±2	-108	-12	10	24	-45 to 85	<3	<2
V810ME06	760 to 860	0.5-4.5	38	-1.5±2.5	-107	-15	2	15	0 to 75	<1	<1
V580ME10	780 to 980	1 - 9.5	45	4.5±2.5	-102	-15	10	25	-20 to 70	<2	<4
V580ME03	800 to 890	1-8	26	-4±3	-110	-30	5	19	-40 to 85	<2	<5
V580ME09	805 to 825	0.5-4.5	43	5.5±2	-110	-12	5	18	-30 to 85	<5	<5
V880ME08	820 to 940	0.5-4.5	36	-1±2.5	-109	-15	2	15	0 to 75	<1	<1
V580ME13	830 to 970	0.5-4.5	52	5±3	-110	-12	5	20	-30 to 80	<3	<1
V868MEM1	850 to 896	0.5-4.5	26	2.5±2.5	-110	-20	5	20	-40 to 85	<2	<3
V580ME02	900 to 960	1-4	37	5.5±2.5	-110	-15	5	19	-40 to 85	<2	<5
V590ME01	900 to 1200	1 - 8	63	10±2	-102	-10	5	25	-40 to 85	<3	<10
V580ME04	910 to 1000	1-8	22	3.25±2.25	-110	-17	5	20	-40 to 85	<2	<2
V581ME01	951 to 977	0-5	19	7±2	-103	-5	5	15	-40 to 85	<5	<10
V580ME12	957 to 967	0.25 - 2.9	32	-4±3	-111	-20	3.3	27	-40 to 85	<5	<3
L-Band: 1 - 2 GHz											
V582ME09	1000 to 1040	0.5-4.5	21	0±3	-108	-15	5	12	-40 to 85	<1	<0.5
V582ME18	1020 to 1100	1-4	49	10.5±2.5	-110	-17	5	32	-40 to 85	<2	<2
V582ME03	1060 to 1100	0.5-5.5	38	11±2	-104	-10	5	34	-40 to 85	<5	<12
V582ME11	1073 to 1086	0.5-4.5	10	-1.5±2.5	-115	-30	5	20	-40 to 85	<1	<2

Low Cost MINI Series VCOs (continued)

Part Number	Frequency (MHz)	Tuning Voltage (Vdc)	Kvco (MHz/V)	Output Power (dBm)	ϕ_n @10kHz (dBc/Hz)	2nd Harmonic (dBc)	Vcc (Vdc)	Icc (mA)	Operating Temperature (°C)	Pushing (MHz/V)	Pulling (MHz)
L-Band: 1 - 2 GHz (continued)											
V585ME11	1100 to 1500	0.8-20	40	6±2	-102	-10	10	16	0 to 80	<5	<15
V602ME15	1100 to 1400	0.5-4.5	123	8.5±2.5	-100	-10	5	21	-40 to 85	<5	<12
V602ME06	1145 to 1245	0.3-3.0	92	6.5±2.5	-101	-15	3.3	15	-20 to 70	<5	<15
V585ME35	1150 to 1740	0.5-19.5	48	6±3	-98	-14	8	17	-40 to 85	<5	<10
V585ME01	1190 to 1610	0.5-8.5	66	10±2.5	-101	-2	10	25	0 to 80	<5	<10
V585ME04	1190 to 1610	0.5-8.5	64	6.75±3.25	-98	-5	5	17	-40 to 85	<3	<10
V602ME04	1240 to 1593	0-10	61	6.5±2	-98	-10	3.5	17	-40 to 85	<5	<15
V602ME13	1280 to 1510	0.5-8.5	61	6.75±2.25	-99	-10	5	16	-40 to 85	<2	<12
V584ME01	1305 to 1595	1.5-10.5	47	9.5±2	-102	-10	12	27	-40 to 85	<2	<10
V584ME02	1305 to 1595	2-9.5	48	10.5±2.5	-103	-10	12	26	-40 to 70	<2	<12
V584ME08	1340 to 1735	1-13	51	10±2	-103	-10	12	24	-40 to 70	<5	<15
V586ME06	1400 to 2050	1.75-12	84	6.5±3.5	-98	-8	12	20	-30 to 85	<4	<15
V586ME08	1400 to 2250	0.5-14.5	81	9.5±3.5	-97	-5	11.5	24	-40 to 85	<4	<13
V585ME58	1420 to 1810	1-18	40	5±2	-102	-15	10	15	-40 to 85	<4	<8
V586ME04	1430 to 2010	2-14	68	6±3	-98	-5	12	18	-10 to 80	<4	<12
V602ME07	1440 to 1670	0.25-4.75	99	4±2	-101	-13	4.5	12	-40 to 85	<5	<15
V585ME14	1470 to 1875	0.8-20	35	6±2	-102	-10	10	15	0 to 80	<5	<15
V585ME29	1470 to 1650	1-12	35	7±2	-103	-10	5	19	-40 to 85	<5	<9
V585ME12	1500 to 1900	0.8-20	35	5.75±2.25	-102	-10	10	15	0 to 80	<5	<15
V585ME19	1500 to 2000	0.8-20	34	5.5±1.5	-102	-10	10	15	-40 to 85	<3	<10
V600ME05	1500 to 2350	0-15	69	5±3	-94	-10	5	16	-5 to 80	<7	<9
V603ME04	1510 to 1650	1.5-12	24	0±3	-105	-7	8	14	-10 to 85	<4	<5
V616ME10	1550 to 1620	1.5-8	22	0±3	-105	-10	8	14	-10 to 85	<1	<2
V585ME24	1568 to 1971	1-20	33	6.5±1.5	-102	-9	10	16	0 to 75	<5	<10
V602ME20	1580 to 1810	0.25-4.75	85	1.5±3.5	-100	-20	4.5	10	-40 to 85	<5	<5
V604ME03	1630 to 1970	2-10	63	6.75±2.75	-101	-12	10	25	-40 to 70	<5	<8
V621ME07	1658 to 1718	1-4	38	0.25±3.25	-107	-25	5	22	-40 to 85	<5	<5
V621ME20	1670 to 1731	1-4	42	-2.5±3.5	-107	-20	5	22	-40 to 85	<3	<0.3
V621ME01	1683 to 1743	1.5-8	22	5±2	-108	-9	8	18	-40 to 85	<4	<5
V660ME03	1690 to 1925	2-12	35	3±2	-99	-12	9	14	-40 to 85	<4	<10
V605ME03	1700 to 1850	0-10	24	3.5 ± 2	-102	-7	11	25	-30 to 70	< 2	< 2
V660ME07	1700 to 1900	1-9	35	2±2	-98	-10	9	10	-20 to 70	<2	<9
V674ME02	1700 to 2508	1-15	85	7.5±4.5	-92	-7	10	25	-30 to 70	<5	<20
V674ME06	1700 to 2496	2-20	66	7±3	-93	-15	10	25	-10 to 85	<5	<12
V674ME27	1700 to 2150	0.5-4.5	143	6.5±4.5	-96	-6	5	10	-40 to 85	<22	<26
V585ME32	1710 to 1970	1-12	30	5.5±2.5	-98	-10	5	15	-40 to 85	<7	<15
V621ME23	1710 to 1980	1-18	20	3.5±3.5	-109	-15	5	22	-40 to 85	<4	<1
V613ME03	1722 to 1777	1-5	25	-2.5±3.5	-102	-15	5	16	-40 to 85	<3	<3
V612ME01	1730 to 1800	0.5-4.5	47	6.5±2	-99	-15	5	20	-40 to 85	<3	<10
V604ME06	1750 to 2000	2 - 9.5	58	6±3	-102	-15	10	24	-55 to 75	<2	<6
V612ME04	1755 to 1835	0.5-4.5	47	6±2	-100	-15	5	20	-40 to 85	<3	<10
V613ME11	1763 to 1765	0.5-4.5	27	3±2	-109	-25	5	25	-40 to 75	<3	<1
V674ME08	1800 to 2510	1.75-12.0	94	6.5±3.5	-93	-6	12	14	-40 to 85	<2	<25
V613ME04	1805 to 1880	1-8	21	3±3	-105	-11	5	18	-40 to 85	<2	<5
V613ME16	1805 to 1850	1 - 4.75	22	4±2	-104	-15	5	16	-30 to 70	<1	<5
V674ME25	1820 to 2480	0.5-9.5	115	4.5±3.5	-96	-6	10	13	0 to 70	<1	<21
V614ME02	1860 to 2160	2-8	65	7.25±3.75	-99	-11	9	22	-30 to 85	<1	<7
V614ME06	1860 to 2160	2-8	68	8.75±3.25	-100	-11	9	22	-40 to 85	<1	<12
V614ME07	1875 to 1957	0.6-5	69	0.5±2.5	-100	-20	4.5	11	-40 to 85	<4	<1
V603ME17	1885 to 1895	0.5-4.5	33	4.5±2.5	-104	-15	4.5	21	-40 to 85	<1	<7
V603ME07	1896 to 1924	0.5-5	18	4±2.5	-105	-15	4.5	28	-40 to 85	<3	<5
V608ME06	1900 to 2270	2-10	61	7±3	-91	-17	12	15	-40 to 70	<5	<25
V610ME03	1900 to 2140	1-8	60	10±2	-97	-8	9	31	-40 to 75	<10	<20
V624ME01	1930 to 1990	1.5-8	23	5±3	-105	-10	8	21	-10 to 85	<2	<5

Low Cost MINI Series VCOs (continued)

Part Number	Frequency (MHz)	Tuning Voltage (Vdc)	Kvco (MHz/V)	Output Power (dBm)	ϕ_n @10kHz (dBc/Hz)	2nd Harmonic (dBc)	Vcc (Vdc)	Icc (mA)	Operating Temperature (°C)	Pushing (MHz/V)	Pulling (MHz)
L-Band: 1 - 2 GHz (continued)											
V610ME04	1950 to 2150	0.5-4.5	72	6±2	-95	-17	4.5	16	-40 to 85	<2	<12
V610ME08	1950 to 2150	0.5-4.5	77	6±2	-95	-27	4.5	16	-40 to 85	<3	<12
V610ME09	1990 to 2200	0.5-4.5	70	7.5±1.5	-95	-10	5	19	-30 to 75	<4	<15
V626ME01	1990 to 2380	0.5-15	51	10±3	-100	-6	9	18	-30 to 85	<5	<15
S-Band: 2 - 4 GHz											
V626ME10	2000 to 2500	1-14	53	4±2	-99	-7	9	18	-20 to 70	<1	<6
V626ME14	2000 to 2800	1-20	55	3±3	-97	-17	5	21	-40 to 85	<15	<7
V674ME26	2000 to 2500	1-10	107	4.5±3.5	-96	-10	10	13	0 to 70	<2	<15
V626ME07	2060 to 2160	2-8	26	8±2	-98	-10	5	22	-40 to 85	<3	<11
V630ME14	2070 to 2265	0.5-10	49	8.5±2.5	-98	-9	5	24	-40 to 85	<5	<13
V640ME01	2079 to 2081	0.5-4.5	16	4±3	-101	-17	5	34	-40 to 85	<5	<5
V630ME01	2085 to 2220	0.5-4.5	60	4.5±2.5	-98	-10	5	12	-40 to 85	<4	<12
V613ME05	2110 to 2170	0.5-4.5	34	1.5±3.5	-105	-30	5	17	-40 to 85	<3	<5
V613ME05-LF	2110 to 2170	0.5-4.5	34	1.5±3.5	-104	-30	5	15	-40 to 85	<3	<5
V630ME34	2155 to 2258	0.2-4.8	56	0±3	-100	-17	5	12	-40 to 85	<1	<6
V613ME13	2165 to 2220	0-5	33	4±1	-105	-30	5	20	-10 to 85	<2	<5
V630ME15	2165 to 2360	0.5-10	48	8.5±2.5	-98	-10	5	24	-40 to 80	<5	<13
V630ME08	2190 to 2330	0.5-4.5	80	4±3	-91	-20	4.5	15	-30 to 85	<5	<15
V630ME09	2190 to 2330	0-5	62	4±4	-98	-12	4.5	14	-40 to 85	<3	<10
V626ME03	2200 to 2500	0.5-14	45	8.5±2.5	-97	-10	5	24	-40 to 85	<5	<15
V626ME08	2200 to 2700	0.5-18	57	7±3	-96	-14	5	22	-40 to 85	<5	<15
V630ME02	2200 to 2285	0.5-4.5	53	4±3	-94	-10	4.5	14	-30 to 85	<6	<16
V802ME05	2200 to 2400	0.5-8	56	5±3	-95	-15	5	17	-30 to 80	<4	<9
V804ME08	2200 to 2400	1.5-10.5	48	10±3	-99	-10	10	16	-40 to 85	<2	<30
V802ME06	2225 to 2350	1-8	47	10.25±1.75	-95	-15	9	30	-40 to 75	<3	<17
V630ME35	2255 to 2358	0.5-4.5	40	1.5±3.5	-99	-30	5	16	-40 to 85	<3	<5
V802ME07	2268 to 2457	1-11	48	8±3	-95	-10	5	14	-40 to 85	<5	<28
V800ME05	2270 to 2360	0.5-4.5	47	4.5±3.5	-96	-17	5	14	0 to 70	<3	<11
V800ME09	2270 to 2330	0.7-4.2	51	5±2	-98	-25	5	15	-40 to 85	<1	<13
V802ME03	2275 to 2475	0.5-8	52	5±3	-94	-10	5	18	-30 to 80	<6	<8
V804ME04	2300 to 2500	1.5-10.5	47	9.5±2.5	-99	-16	10	16	-40 to 70	<2	<30
V804ME14	2300 to 2450	0.5-4.5	50	4±2	-101	-20	5	28	-40 to 85	<4	<2
V805ME03	2300 to 2650	2-9	65	5±3	-96	-15	10	18	-40 to 75	<2	<12
V800ME15	2310 to 2390	0.5-4.5	54	6±3	-97	-15	5	17	-40 to 85	<4	<13
V804ME09	2327 to 2517	1-11	47	8±3	-96	-12	5	14	-40 to 85	<5	<28
V600ME06	2350 to 3125	0-15	72	4±4	-90	-10	5	17	-20 to 80	<6	<9
V805ME08	2350 to 2930	0.5-10.5	75	1±3	-92	-13	5	14	-40 to 85	<3	<9
V630ME03	2370 to 2515	0.5-4.5	90	3.5±2.5	-94	-10	4.5	11	-30 to 85	<15	<25
V800ME04	2400 to 2484	0.5-4.5	50	6.5±3.5	-95	-17	5	15	0 to 70	<5	<15
V800ME08	2400 to 2485	0.5-4.5	47	5.5±2.5	-95	-13	5	15	-40 to 85	<5	<15
V800ME10	2400 to 2485	0.5-4.5	56	5±2	-95	-22	5	15	-30 to 85	<2	<15
V800ME11	2400 to 2485	0.7-4.2	56	5±2	-97	-20	5	15	-40 to 85	<2	<15
V805ME04	2450 to 3130	0.5-10.5	110	0±3	-88	-15	5	13	-40 to 85	<6	<10
V805ME06	2450 to 3050	0.5-10.5	69	2±3	-90	-10	5	13	-40 to 85	<1	<12
V800ME14	2459 to 2543	0.5-4.5	42	2±3	-101	-20	5	25	-40 to 85	<1	<2
V630ME04	2460 to 2600	0.5-4.5	75	3±3	-94	-15	4.5	11	-30 to 85	<15	<25
V805ME14	2495 to 2915	1-11	66	0±3	-92	-15	5	15	-40 to 85	<2	<9
V805ME02	2500 to 2700	1.5-10.5	41	8.5±2.5	-97	-15	10	18	-40 to 70	<2	<21
V806ME01	2516 to 2655	0.5-7.5	40	4±2	-96	-20	5	13	-30 to 80	<2	<20
V806ME04	2540 to 2600	0.5-4.5	48	5±2	-97	-13	5	13	-30 to 80	<5	<20
V805ME15	2550 to 3100	0.5-9.5	110	6±3	-90	-20	10	17	-20 to 70	<7	<18
V804ME01	2560 to 2875	0.5-8	65	0.5±3.5	-93	-19	5	15	-40 to 85	<5	<15
V805ME17	2560 to 3200	1-10	110	6±3	-90	-20	10	18	-40 to 85	<5	<15

Low Cost MINI Series VCOs (continued)

Part Number	Frequency (MHz)	Tuning Voltage (Vdc)	Kvco (MHz/V)	Output Power (dBm)	ϕ_n @10kHz (dBc/Hz)	2nd Harmonic (dBc)	Vcc (Vdc)	Icc (mA)	Operating Temperature (°C)	Pushing (MHz/V)	Pulling (MHz)
S-Band: 2 - 4 GHz (continued)											
V805ME12	2600 to 3110	1.75-12.0	66	6±3	-92	-20	12	23	-40 to 85	<5	<20
V806ME02	2650 to 2735	0.5-7.5	43	2.25±2.25	-94	-17	5	15	-30 to 80	<5	<15
V630ME05	2665 to 2810	0.5-4.5	73	5±3	-95	-14	4.5	16	-30 to 85	<10	<20
V630ME13	2700 to 2900	0.5-4.5	72	4±3	-94	-15	4.5	15	-40 to 85	<5	<22
V630ME17	2710 to 2910	0.5-4.5	90	2±3	-94	-10	5	18	-40 to 85	<8	<10
V630ME28	2785 to 2787	0.5-4.5	28	2.75±1.25	-98	-15	5	17	-40 to 75	<1	<9
V630ME10	2800 to 2870	0.5-4.5	65	6.25±3.25	-94	-13	4.5	15	-40 to 85	<10	<30
V810ME02	2865 to 3065	0.5-4.5	145	1±3	-85	-15	5	15	-40 to 85	<5	<17
V810ME05	2865 to 3165	0.5-5.5	103	1.5±3.5	-89	-11	5	24	-40 to 85	<10	<10
V630ME29	2981 to 2983	0.5-4.5	28	3.5±1.5	-98	-15	5	17	-40 to 80	<4	<9
V846ME07	3000 to 3700	0.3-11.7	92	1±2	-87	-15	5	22	-40 to 80	<8	<6
V842ME05	3010 to 3340	1.5-15	40	0.5±3.5	-90	-20	8.5	25	-40 to 85	<3	<9.5
V844ME12	3090 to 3340	0.5-4.5	95	3±2	-90	-15	5	17	-20 to 70	<1	<7
V842ME02	3110 to 3320	2-10	48	7±2	-92	-18	8	25	-30 to 70	<5	<20
V844ME01	3200 to 3400	0.5-4.5	98	5±3	-90	-15	5	20	-40 to 85	<7	<21
V846ME02	3270 to 3510	1.5-11	55	0.5±3.5	-90	-15	5	25	-40 to 80	<7	<10
V846ME01	3300 to 3625	1-11	52	6.5±3.5	-93	-30	8	23	-40 to 75	<5	<23
V844ME07	3313 to 3530	0.5-4.5	93	3±3	-89	-15	5	18	-40 to 85	<1	<8
V846ME03	3370 to 3540	1.5-11	55	1±3	-90	-25	5	25	-35 to 85	<10	<10
V844ME11	3410 to 3665	0.5-4.5	87	3±2	-90	-15	5	16	-20 to 70	<3	<8
V844ME20	3430 to 3610	0.5-4.5	87	3.25±1.25	-88	-15	5	18	-40 to 85	<1	<8
V846ME08	3450 to 4200	0.5-14	62	6±3	-82	-15	10	27	-20 to 70	<2	<12
V900ME01	3500 to 4000	2-18	47	6±3	-91	-25	8	25	-30 to 75	<4	<25
V844ME03	3610 to 3790	0.5-4.5	84	3.5±1.5	-87	-25	5	15	-40 to 85	<3	<10
V844ME14	3640 to 4130	0.5-7.0	99	4.5±2.5	-87	-20	5	17	-20 to 70	<3	<15
V844ME08	3663 to 3880	0.5-4.5	79	3±3	-84	-15	5	21	-40 TO 85	<5	<8
V910ME04	3725 to 3925	0.5-8	47	4.5±1.5	-83	-20	5	24	-40 to 85	<8	<12
V900ME04	3740 to 3800	1-11	49	9±3	-88	-17	10	23	-40 to 85	<1	<25
V844ME04	3790 to 3970	0.5-4.5	76	2±1	-86	-15	5	15	-40 to 85	<5	<10
V910ME01	3930 to 4200	1.5-11	45	1±3	-86	-14	5	15	-35 to 80	<5	<12
V844ME05	3970 to 4150	0.5-4.5	70	3±2	-87	-15	5	15	-40 to 85	<7	<12
V910ME16	3990 to 4490	0-11	78	2.5±2.5	-84	-15	5	20	-30 to 75	<5	<10
V910ME16	3990 to 4490	0-11	78	2.5±2.5	-84	-15	5	20	-30 to 75	<5	<10

C Band: 4-6.5 GHz

V844ME13	4000 to 4000	2-3	90	1±3	-88	-20	5	15	-20 TO 45	<4	<7
V910ME05	4020 to 4330	1.5-11	46	1±3	-86	-27	5	26	-35 to 80	<8	<12
V910ME15	4020 to 4330	1.5-11	75	2±3	-88	-12	5	21	-40 to 85	<5	<15
V910ME13	4200 to 4400	2-10	44	0.5±3.5	-86	-20	5	27	-40 to 85	<9	<11
V910ME02	4245 to 4335	0.5-8	70	0.5±2.5	-87	-13	5	16	-40 to 85	<5	<10
V940ME05	4280 to 4420	0.5-4.5	100	0±3	-87	-20	5	9	-40 to 85	<10	<35
V950ME01	4420 to 4620	1.5-11	36	0±3	-85	-15	5	14	-35 to 80	<10	<20
V940ME19	4750 to 5100	0.5-14	36	6±3	-88	-20	10	26	-20 to 70	<4	<27
V940ME02	5220 to 5420	0.5-4.5	108	-1±3	-83	-25	5	12	-30 to 85	<10	<35
V940ME04	5220 to 5420	0.5-4.5	118	2.75±1.75	-78	-30	5	26	-30 to 85	<6	<15
V940ME11	5220 to 5420	0.5-4.5	110	4±2	-82	-20	4.25	25	-30 to 85	<1	<1
V940ME03	5725 to 5875	0.5-4.5	105	0.25±3.25	-87	-30	5	27	-30 to 85	<5	<15
V956ME01	6175 to 6325	0.3-4.7	87	1±2	-84	-30	5	27	-40 to 85	<7	<15
V965ME04	6500 to 6550	0.5-4.5	80	-2±3	-85	-19	5	50	-40 to 85	<3	<12

SMV Series VCOs

Part Number	Frequency (MHz)	Tuning Voltage (Vdc)	Kvco (MHz/V)	Output Power (dBm)	ϕ_n @10kHz (dBc/Hz)	2nd Harmonic (dBc)	Vcc (Vdc)	Icc (mA)	Operating Temperature (°C)	Pushing (MHz/V)	Pulling (MHz)
SMV0135A	120 to 150	0.5-4.5	12	3±3	-101	-11	5	20	-30 to 85	<2	<2
SMV0162A	125 to 200	0.7-8.3	12	6±5	-100	-6	5	36	-30 to 85	<3	<3
SMV0128A	126 to 130	0.7-4.3	12	3±3	-102	-10	5	22	-30 to 85	<1	<1
SMV0165L	160 to 165	1-4	12	-1±3	-103	-10	5	14	-40 to 85	<1	<0.1
SMV0186A	180 to 195	0-3	12	0 ±3	-101	-10	3.3	15	-55 to 85	<1.5	<0.1
SMV0206L	200 to 212	0.5-2.25	17	-0.5±3.5	-98	-10	2.85	16	-20 TO +70	<2	<1
SMV0215A	200 to 230	1-4	17	0±2	-100	-15	5	16	-20 to 85	<1.5	<0.5
SMV0205A	204 to 206	1-4	11	-1±3	-102	-10	5	15	-20 to 85	<1	<1
SMV0222A	210 to 235	0-3	14	-0.5±2.5	-100	-13	3.3	15	-40 TO +85	<3	<1
SMV0550L	559 to 561	0.5-3.5	30	-4±2	-94	-15	4	15	-40 to 85	<3	<2
SMV0760L	750 to 770	0.5-2.5	60	4.5±3	-103	-10	2.7	11	-40 to 85	<5	<10
SMV0780L	750 to 810	0.5-3.0	45	5±2.5	-104	-10	2.7	11	-40 to 85	<5	<5
SMV0850A	850 to 855	0.5-2.5	13	3±1	-100	-12	3	9	-40 to 85	<9	<6
SMV0915L	905 to 925	0.5-2.5	75	3.5±2.5	-100	-10	3	6	-40 to 85	<5	<5
SMV0978L	975 to 995	0.5-2.5	70	4±3	-100	-12	3	6	-40 to 85	<3	<5
SMV1204L	1185 to 1221	0.5-2.25	71	1±3	-98	-10	2.85	12	-20 TO +70	<5	<5
SMV1205A	1185 to 1225	0.5-2.7	59	0±3	-96	-11	3.1	8	-40 TO +85	<2	<7
SMV1350A	1278 to 1415	0-3	98	0.1±3.1	-96	-10	3	8.5	-40 to 85	<1	<4
SMV1350B	1278 to 1415	0-2.8	98	0.1±3.1	-94	-10	3	7	-40 to 85	<1	<4
SMV1400A	1380 to 1420	0-3	100	3±2	-94	-10	3	15	-55 to 85	<2	<5
SMV1440L	1380 to 1500	0-3	101	0±3	-93	-15	3	13	-40 to 85	<3	<5
SMV1412A	1394 to 1429	0.4 - 2.1	60	5±2	-99	-11	3	11	-40 to 85	<2	<7
SMV1486A	1427 to 1545	0-3	100	2±2	-95	-15	3	13	-40 to 85	<3	<2
SMV1512A	1511 to 1513	0-3	94	3±2	-97	-18	3	13	-40 to 85	<4	<3
SMV1570L	1540 to 1600	0.5-2.5	114	-0.5±3.5	-90	-15	2.7	9	-40 to 85	<6	<12
SMV1600L	1590 to 1610	0.5-2.5	125	6±2	-93	-15	3	10	-40 to 85	<6	<12
SMV1615L	1610 to 1620	0.5-4.5	35	2±3	-90	-15	5	15	-40 to 85	<5	<10
SMV1679A	1678 to 1680	0-3	49	-4.5±2.5	-87	-10	2.7	6	-30 to 85	<16	<7
SMV1720L	1680 to 1760	0.3-2.7	142	7.25±3.25	-88	-10	3	14	-20 to 70	<20	<25
SMV2020L	1860 to 2180	0.5-4.5	151	5±2	-91	-10	4.7	15	-40 to 85	<5	<7
SMV1885L	1870 to 1890	0.5-2.5	95	5±2	-90	-10	3	14	-40 to 85	<10	<15
SMV1960L	1938 to 1983	1-4	100	13.25±3.25	-90	-8	5	25	-30 to 85	<9	<19
SMV2015A	1974 to 2057	0.5-2.5	89	3±2	-92	-10	3	9	-40 to 85	<6	<7
SMV2070A	2016 to 2120	0-3	90	3±2	-91	-10	3	9	-40 to 85	<4	<7
SMV2100L	2050 to 2150	0-3	115	8.5±2.5	-86	-8	3	14	-30 to 70	<25	<25
SMV2110L	2050 to 2150	0.6-4.3	106	7.5±2.5	-88	-9	3	13	0 to 70	<15	<20
SMV2165A	2118 to 2218	0-3	148	6±3	-91	-10	3.3	16	-40 to 85	<15	<15
SMV2170L	2120 to 2220	0.5-3.5	135	9±3.5	-88	-10	4	15	-40 to 85	< 10	< 25
SMV2175L	2120 to 2220	0-3.5	130	-2.5±2.5	-81	-20	3.3	6	-30 to 70	<15	<15
SMV2180L	2120 to 2220	0-3.5	120	7±3	-89	-11	3.5	13	-30 to 85	<10	<20
SMV2200L	2135 to 2285	0-3	165	9.5±2.5	-86	-15	3	16	-15 to 60	<30	<35
SMV2278A	2275 to 2280	0.3-3	147	4±2	-91	-10	3	13	-40 to 90	<15	<15
SMV2385L	2290 to 2485	0-3.3	142	10±2	-86	-15	3	18	-30 to 70	<35	<25
SMV2390L	2290 to 2485	0-4	116	10±2.5	-90	-11	5	16	-30 to 70	<10	<25
SMV2330L	2300 to 2360	0.5-2.5	140	-0.25±3.75	-88	-12	2.7	8	-30 to 85	<10	<13
SMV2488	2388 to 2588	0.5-4.5	145	10.5±2	-87	-20	3	18	0 to 70	<25	<30
SMV2500L	2400 to 2484	0-3	105	9.25±2.75	-87	-20	3	19	-40 to 85	<30	<25
SMV2475L	2430 to 2520	0-3	130	10±2	-87	-12	3	19	-40 to 85	<30	<20
SMV2560A	2435 to 2675	0.4-2.9	220	7±3	-84	-12	3	21	-40 to 85	<56	<29
SMV2565A	2435 to 2675	1.0-3.5	218	6±3	-83	-10	4	16	-40 to 85	<17	<12
SMV2490L	2450 to 2530	0.5-4.5	112	12.5±2.5	-89	-10	5	21	-30 to 85	<10	<30
SMV2660L	2620 to 2700	0.5-4.5	90	13.5±2.5	-91	-17	5	21	-30 to 85	< 10	< 30
SMV2640L	2630 to 2650	0.5-2.5	117	5±2	-88	-15	3	14	-40 to 85	<10	<15
SMV2810A	2725 to 2900	1-4	190	9.5±1.5	-86	-30	4.1	16	-40 to 85	<14	<18
SMV2810L	2725 to 2900	1-4	190	9.5±1.5	-86	-30	4.1	16	-40 to 85	< 14	<18
SMV3000L	2862 to 3053	1.0-3.5	173	8±3	-86	-15	4	19	-40 to 85	<19	<16

SMV Series VCOs (continued)

Part Number	Frequency (MHz)	Tuning Voltage (Vdc)	Kvco (MHz/V)	Output Power (dBm)	ϕ_N @10kHz (dBc/Hz)	2nd Harmonic (dBc)	Vcc (Vdc)	Icc (mA)	Operating Temperature (°C)	Pushing (MHz/V)	Pulling (MHz)
SMV3300A	3200 to 3400	0.5-4.5	90	5±3	-91	-20	5	20	-40 to 85	<8	<8
SMV3417A	3415 to 3420	0.5-4.5	45	5±3	-89	-20	5	21	-40 to 85	<8	<10
SMV3590A	3490 to 3690	0.5-2.5	210	3±3	-89	-20	2.8	12	-10 to 75	<7	<10
SMV3895A	3815 to 3975	0.5-2.5	204	2±2	-84	-10	2.8	11	-10 to 75	<4	<10
SMV4700A	4700 to 4825	1-4	203	1±2	-83	-30	5	26	-40 to 75	<10	<2
SMV4780A	4780 to 4880	1-4	209	1±2	-84	-20	4.1	14	-30 to 85	<3	<5
SMV4780N	4780 to 4880	1-4	200	1±2	-85	-20	4.1	15	-30 to 85	<4	<5
SMV5000L	4780 to 5356	0.5-4.5	183	0±2	-84	-20	5	26	-30 to 85	<10	<3
SMV5050A	4780 to 5356	0.5-4.5	170	0±3	-84	-20	4.1	23	-30 to 85	<10	<4
SMV5068A	4780 to 5356	0.5-4.5	175	-1±2	-83	-20	4.1	19	-30 to 85	<5	<3
SMV5300L	5220 to 5420	0.5-4.5	178	3.5±2.5	-81	-30	5	26	-30 to 75	<9	<8
SMV5256A	5256 to 5356	1-4	178	1±2	-86	-20	4.1	23	-30 to 85	<4	<5
SMV5530A	5430 to 5630	0.5-4.5	150	0±2	-86	-25	5	27	-35 to 85	<3	<4
SMV5750A	5700 to 5800	1-4	150	0±2	-88	-30	5	27	-40 to 75	<4	<3
SMV6350A	6300 to 6400	0-5	131	-1±2	-85	-15	5	27	-40 to 75	<14	<3

* SMV Series VCOs utilize the Sub-L package.

Phase Locked Loop Modules

Part Number	Frequency (MHz)	Step Size (kHz)	Output Power (dBm)	Sideband Sup (dBc)	ϕ_N @10kHz (dBc/Hz)	2nd Harmonic (dBc)	Vcc (Vdc)	Icc (mA)	Operating Temperature (°C)	Switch Speed (msec)	Lock Time (msec)	Package
PCA0090A	85 to 95	50	0.5±2.5	-65	-101	-10	3.3	25	-40 to 85	<4	4	cPLL
PCA0163A	163.84 to 163.84	80	-0.5±2.5	-70	-102	-10	3	21	-40 to 85	n/a	4	cPLL
PSA0210A	190 to 230	50	5±2	-65	-102	-9	5	25	-40 to 85	1	1.5	PLL
PCA0198A	198 to 199	100	0±2	-70	-104	-10	5	45	-40 to 85	1.5	1	cPLL
PSN0210A	200 to 230	100	4±3	-65	-105	-10	5	20	-40 to +85	1	5	PLL
PSA0250A	240 to 260	50	5±2	-60	-103	-7	5	30	-40 to 85	1	1.5	PLL
PCA0300A	275 to 325	100	4±3	-65	-101	-7	5	24	-40 to 85	3	5	cPLL
PSA0413A	370 to 460	6.25	0.5±3.5	-60	-100	-10	5	40	-10 to 70	1	1.5	PLL
PCA0445A	420 to 470	100	4±3	-65	-99	-10	5	24	-40 to 85	3	5	cPLL
PCA0495A	470 to 520	100	4±3	-65	-98	-10	3.3	25	-40 to 85	3	5	cPLL
PSN0800A	787 to 821	50	3±2	-70	-104	-10	5	17	-40 to 85	4	8	PLL
PSA0869A	865 to 870	50	2.5±2.5	-65	-100	-15	5	30	-40 to 85	1	1	PLL-24
PSN0930A	900 to 960	100	3±2	-65	-100	-15	5	40	-40 to 85	1	5	PLL
PSA0951A	950 to 956	50	2.5±2.5	-65	-100	-15	5	30	-40 to 85	1	1	PLL-24
PSN1000A	988 to 1028	1000	0.5±2.5	-70	-101	-20	5	32	-40 to +85	2	5	PLL
PSN1045A	1020 to 1070	30	0±3	-70	-105	-12	5	18	-40 to +85	15	20	PLL
PSN1070A	1055 to 1105	30	0±3	-70	-105	-12	5	18	-40 to +85	15	20	PLL
PSN1100A	1076 to 1130	50	3±2	-70	-105	-15	5	18	-40 to +85	4	8	PLL
PCA1127A	1126 to 1128	250	0±2	-70	-107	-17	5	45	-40 to 85	2	5	cPLL
PBA1560A	1173 to 1943	1000	4±3	-75	-95	-10	15	30	-10 to 75	2.5	10	PLL-PBA
PSN1260A	1230 to 1290	1000	1±2	-65	-99	-20	5	40	-40 to +85	1	5	PLL
PCA1292A	1292 to 1298	1000	0±2	-70	-105	-15	5	23	-40 to 85	2	1.4	cPLL
PCA1401A	1401 to 1402	1000	0±2	-70	-103	-15	5	35	-40 to 85	2	3	cPLL
PSN1456A	1420 to 1490	1000	1±2	-65	-103	-20	5	40	-40 to 85	1	5	PLL
PCA1445C	1444 to 1446	1000	5±2	-59	-120	-20	5	35	-40 to 85	1	1	cPLL
PCA1550A	1500 to 1600	1000	1.5±2.5	-70	-103	-20	5	37	-40 to 85	2	3	cPLL
PSA1675A	1575 to 1775	1000	1±2.5	-65	-94	-15	5	35	-40 to 85	2	2	PLL
PSA1650A	1600 to 1700	1000	1.25±2.25	-65	-98	-15	5	35	-40 to 85	2	2	PLL
PSN1720A	1690 to 1760	50	3.5±2.5	-70	-104	-15	5	33	-40 to 85	4	6	PLL
PSN1810A	1780 to 1840	50	4±2	-70	-101	-15	5	34	-40 to 85	5	10	PLL
PSA1780A	1780 to 1840	50	3±2	-65	-106	-15	5	40	-40 to 85	5.5	5	PLL
PSA1875A	1840 to 1910	50	3±2	-65	-106	-10	5	40	-40 to 85	5.5	5.5	PLL
PSA1905A	1875 to 1935	100	1.5±3.5	-65	-106	-10	5	40	-30 to 85	6	6	PLL-24
PSA2000C	1970 to 2030	100	2±2.5	-70	-107	-15	5	30	-40 to 85	2	2	PLL-24H
PSA2100C	2066 to 2128	1000	0±3	-70	-107	-15	5	30	-40 to 70	1.5	2	PLL-24H

Phase Locked Loop Modules (continued)

Part Number	Frequency (MHz)	Step Size (kHz)	Output Power (dBm)	Sideband Sup (dBc)	$\phi_{N@10kHz}$ (dBc/Hz)	2nd Harmonic (dBc)	Vcc (Vdc)	Icc (mA)	Operating Temperature (°C)	Switch Speed (msec)	Lock Time (msec)	Package
PSA2130C	2120 to 2140	1000	0±3	-70	-115	-15	5	40	-40 to 70	2.5	2	PLL-24H
PSA2200C	2160 to 2222	1000	0±3	-70	-108	-15	5	30	-40 to 70	2.5	2	PLL-24H
PSN2450A	2463 to 2465	1000	4.5±1.5	-70	-100	-25	5	30	-40 to 85	5	5	PLL
PSA2700A	2685 to 2715	1000	1±2	-75	-100	-25	5	33	-40 to 85	3	5	PLL
PSN2716A	2715 to 2717	1000	4±2	-80	-102	-20	5	30	-40 to 85	2	5	PLL
PSA2793C	2762 to 2824	250	0±3	-70	-102	-15	5	35	-40 to 85	1.5	2	PLL-24H
PSA2800C	2780 to 2820	1000	0±2	-70	-106	-15	5	40	-40 to 85	1	2	PLL-24H
PSA3000A	2970 to 3030	1000	-1±3	-80	-100	-15	5	50	-40 to 85	2	3	PLL
PSA3005A	2995 to 3015	125	5±3	-70	-100	-30	5	32	-40 to 85	2.5	2	PLL-24
PCA3040C	3040 to 3040	1000	0±3	-60	-112	-8	5	35	-40 to 85	1	1	cPLL
PSA3078C	3063 to 3093	125	0±3	-70	-107	-15	5	35	-40 to 85	3	3	PLL-24H
PSA3152C	3137 to 3167	125	0±3	-70	-107	-12	5	35	-40 to 85	3	3	PLL-24H
PSA3180C	3157 to 3190	125	0±3	-70	-108	-12	5	35	-40 to 85	3	3	PLL-24H
PSA3195C	3180 to 3210	125	0±3	-70	-107	-12	5	35	-40 to 85	3	3	PLL-24H
PSA3230C	3205 to 3235	125	0±3	-70	-107	-12	5	35	-40 to 85	3	1	PLL-24H
PSA3245C	3230 to 3260	125	0±3	-70	-106	-12	5	40	-40 to 85	3	3	PLL-24H
PSA3280C	3257 to 3290	125	0±3	-70	-106	-12	5	35	-40 to 85	3	3	PLL-24H
PSA3295C	3280 to 3310	125	0±3	-70	-106	-12	5	35	-40 to 85	3	3	PLL-24H
PSA3330C	3305 to 3335	125	0±3	-70	-106	-12	5	30	-40 to 85	3	1	PLL
PSA3345C	3330 to 3360	125	0±3	-70	-106	-12	5	30	-40 to 85	3	1	PLL
PSA3445C	3430 to 3460	1000	0±3	-70	-106	-15	5	40	-40 to 85	2.5	2	PLL-24H
PSA3550C	3545 to 3555	1000	0±3	-70	-107	-15	5	40	-40 to 85	2.5	2	PLL-24H
PSA3707C	3675 to 3738	250	0±3	-70	-105	-15	5	40	-40 to 85	2	2	PLL-24H
PSA4000A	3975 to 4025	1000	-0.5±2.5	-65	-85	-15	5	26	-40 to 85	3	5	PLL
PSA4900A	4880 to 4920	1000	4±2	-70	-86	-25	5	38	-40 to 85	0.1	0.5	PLL
PSA4905A	4890 to 4910	1000	3±2	-70	-85	-25	3.3	35	-40 to 85	0.2	0.5	PLL
PSA5000A	4900 to 5100	1000	0±3	-65	-85	-30	5	28	0 to 70	1	1	PLL
PSA5300A	5220 to 5420	1000	2.25±3.25	-70	-87	-25	5	38	-40 to 85	1	1	PLL

Package Information

VCOs

MINI Package SMT



0.5" x 0.5" x 0.22"*

SUB-L Package SMT



0.3" x 0.3" x 0.080"

375 Package SMT



0.375" x 0.375" x 0.124"

USSP Package SMT



0.2" x 0.2" x 0.058"

PLLs

PLL Package SMT



0.866" x 0.630" x 0.14"

CPLL Package SMT



0.5" x 0.5" x 0.140"

* Other shield heights available. Please see website and product data sheet for dimensional layout details.