



2014 Product Selection Guide

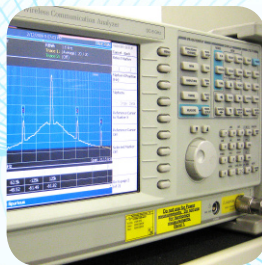
Voltage Controlled Oscillators
Phase-Locked Loops
40 MHz - 15 GHz



Microwave
Radio



Satellite
Communications



Test &
Measurement

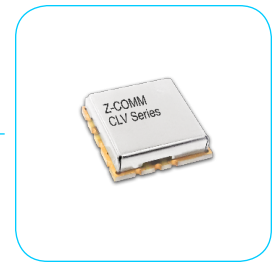


Military
Communications



Clock
Source

CLV Series VCOs: 400 MHz - 4 GHz

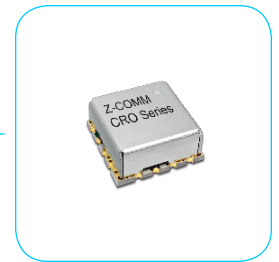


WIDE FREQUENCY RANGE • LOW PHASE NOISE • LOW HARMONICS

The CLV series VCOs utilize a microstrip topology that is based on a patented high-Q distributed resonator design which delivers low phase noise and linear tuning spanning over a wide range of frequency bands covering 400 MHz to 4 GHz. They exhibit excellent tuning linearity and superior harmonic suppression making them the ideal choice for test equipment and satellite communication applications.

Part Number	Low Freq (MHz)	High Freq (MHz)	Vtune (Vdc)	Kvco (MHz/V) (typ)	Output Power (dBm)(typ)	PN @10kHz (dBc/Hz) (typ)	2nd Harm (dBc)(typ)	Vcc (Vdc)	Icc (mA) (typ)	Pushing (MHz/V) (max)	Pulling (MHz) (max)	Size (Inches)	Package
CLV0600A-LF	530	670	1 - 4.5	52	1.50	-109	-15	5	24	<2	<1	0.5 x 0.5 x 0.13	MINI-14S-L
CLV0625B-LF	540	710	0.5 - 11.5	20	1.00	-114	-15	3.3	27	<1	<1	0.5 x 0.5 x 0.16	MINI-14S-LOW
CLV0625E-LF	575	675	0.5 - 4.5	43	0.00	-111	-8	5	25	<2	<1	0.5 x 0.5 x 0.22	MINI-14S
CLV0620E-LF	620	625	0.5 - 2.5	22	4.50	-110	-20	3	22	<1	<1	0.5 x 0.5 x 0.13	MINI-14S-L
CLV0700E-LF	680	720	0.5 - 4.5	35	2.00	-109	-10	5	18	<2	<1	0.5 x 0.5 x 0.13	MINI-14S-L
CLV0730A-LF	713	748	1 - 4	32	5.50	-112	-14	5	22	<1	<1	0.5 x 0.5 x 0.13	MINI-14S-L
CLV0798A-LF	730	920	1 - 15	28	2.25	-108	-15	5	19	<2	<1	0.5 x 0.5 x 0.13	MINI-16-L
CLV0750E-LF	750	830	0.5 - 4.5	31	3.50	-110	-14	5	18	<1	<1	0.5 x 0.5 x 0.13	MINI-14S-L
CLV0835E-LF	800	835	0.5 - 4.5	25	2.00	-111	-17	5	21	<1	<2	0.5 x 0.5 x 0.13	MINI-14S-L
CLV0815E-LF	806	824	0.5 - 4.5	26	-5.00	-109	-35	5	11	<1	<4	0.5 x 0.5 x 0.16	MINI-14MS-LOW
CLV0975B-LF	820	1170	0.5 - 15	31	0.25	-109	-12	5	20	<2	<5	0.5 x 0.5 x 0.22	MINI-14S
CLV0882E-LF	822	943	1 - 9	30	6.00	-113	-15	5	22	<3	<2	0.5 x 0.5 x 0.22	MINI-14S
CLV1075A-LF	830	1300	0.5 - 17	35	4.00	-105	-18	5	26	<4	<2	0.5 x 0.5 x 0.22	MINI-14S
CLV0915A-LF	830	1000	1 - 12	25	6.00	-112	-15	5	25	<1	<1	0.5 x 0.5 x 0.13	MINI-14S-L
CLV0868E-LF	850	896	0.5 - 4.5	25	-1.25	-111	-20	5	20	<6	<2	0.5 x 0.5 x 0.22	MINI-14S
CLV1025E-LF	865	1180	1 - 14	30	5.50	-110	-12	5	24	<2	<1	0.5 x 0.5 x 0.22	MINI-14S
CLV0890A-LF	890	930	0.5 - 4.5	25	-1.25	-111	-20	5	20	<6	<2	0.5 x 0.5 x 0.22	MINI-14S
CLV0925E-LF	896	959	0.3 - 4.7	20	-5.00	-111	-24	5	12	<1	<1	0.5 x 0.5 x 0.22	MINI-14S
CLV1000E-LF	900	1100	1 - 10	31	5.00	-110	-15	5	26	<2	<1	0.5 x 0.5 x 0.22	MINI-14S
CLV1000B-LF	900	1100	0.5 - 4.5	60	5.50	-104	-20	5	20	<4	<1	0.5 x 0.5 x 0.22	MINI-14S
CLV0945E-LF	936	953	0.5 - 4.5	33	3.00	-110	-18	5	18	<1	<1	0.5 x 0.5 x 0.22	MINI-14S
CLV1020A-LF	960	1080	0.5 - 4.5	40	2.00	-106	-15	5	20	<2	<2	0.5 x 0.5 x 0.22	MINI-14S
CLV0986E-LF	971	1002	0.5 - 4.5	18	0.50	-113	-20	5	20	<1	<1	0.5 x 0.5 x 0.13	MINI-14S-L
CLV1015E-LF	987	1032	0.6 - 5	21	-4.00	-109	-36	4.5	15	<2	<2	0.5 x 0.5 x 0.22	MINI-14S
CLV1030E-LF	990	1070	1 - 4.5	33	5.50	-106	-15	5	25	<3	<1	0.5 x 0.5 x 0.22	MINI-14S
CLV1000A-LF	998	1001	0.5 - 2.5	17	-2.00	-114	-18	3	18	<1	<1	0.5 x 0.5 x 0.22	MINI-14S
CLV1100E-LF	1035	1180	1 - 10	25	4.00	-107	-15	5	20	<2	<2	0.5 x 0.5 x 0.22	MINI-14S
CLV1085E-LF	1050	1086	0.5 - 4.5	21	-1.00	-112	-20	5	23	<1	<1	0.5 x 0.5 x 0.13	MINI-14S-L
CLV1150E-LF	1100	1200	0.3 - 4.7	39	2.00	-109	-20	5	22	<1	<1	0.5 x 0.5 x 0.22	MINI-14S
CLV1225A-LF	1180	1270	0.5 - 4.5	37	2.50	-109	-25	5	26	<1	<1	0.5 x 0.5 x 0.13	MINI-14S-L
CLV1277A-LF	1213	1341	0.5 - 4.5	38	3.50	-107	-20	5	28	<3	<2	0.5 x 0.5 x 0.13	MINI-14S-L
CLV1295A-LF	1235	1355	0.5 - 4.5	68	5.00	-105	-15	5	26	<4	<2	0.5 x 0.5 x 0.22	MINI-14S
CLV1310A-LF	1260	1370	0.5 - 4.75	40	4.50	-107	-11	5	25	<0.5	<1.5	0.5 x 0.5 x 0.13	MINI-14S-L
CLV1320E-LF	1295	1335	1 - 5	18	-5.00	-109	-30	5	27	<1	<2	0.5 x 0.5 x 0.22	MINI-14S
CLV1350E-LF	1295	1385	0.5 - 4.5	36	0.00	-107	-12	5	21	<1	<1	0.5 x 0.5 x 0.22	MINI-14S
CLV1385E-LF	1370	1400	0.5 - 4.5	21	2.75	-109	-15	5	18	<1	<1	0.5 x 0.5 x 0.22	MINI-14S
CLV1440E-LF	1400	1486	0.5 - 4.5	33	0.00	-107	-15	5	23	<1	<1	0.5 x 0.5 x 0.13	MINI-14S-L
CLV1585E-LF	1487	1587	0.25 - 4.5	36	4.50	-108	-17	5	24	<2	<3	0.5 x 0.5 x 0.13	MINI-14S-L
CLV1550E-LF	1500	1600	0.5 - 5	47	0.00	-104	-35	5	18	<4	<2	0.5 x 0.5 x 0.16	MINI-14MS-LOW
CLV1525E-LF	1500	1550	0.3 - 4.7	25	0.50	-108	-20	5	25	<1	<1	0.5 x 0.5 x 0.22	MINI-14S
CLV1625A-LF	1510	1740	0.5 - 11.5	28	0.00	-107	-15	3.3	23	<1	<1	0.5 x 0.5 x 0.13	MINI-16-L
CLV1630A-LF	1593	1654	0.5 - 4.5	31	3.50	-111	-15	5	24	<1	<1	0.5 x 0.5 x 0.13	MINI-16-L
CLV1635A-LF	1600	1670	0.5 - 4.5	33	3.00	-108	-25	5	22	<2	<1	0.5 x 0.5 x 0.13	MINI-14S-L
CLV1670A-LF	1640	1700	0.5 - 4.5	30	2.50	-111	-21	5	23	<1.5	<1	0.5 x 0.5 x 0.13	MINI-16-L
CLV1750A-LF	1690	1810	0.5 - 4.5	50	5.00	-104	-15	5	27	<4	<2	0.5 x 0.5 x 0.22	MINI-14S

CRO Series VCOs: 400 MHz - 8 GHz

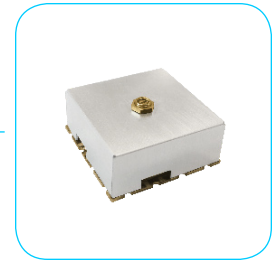


LOW TUNING SENSITIVITY • ULTRA-LOW PHASE NOISE • LOW FREQUENCY DRIFT

The CRO or ceramic resonator family of oscillators are renowned for offering superior phase noise performance. They are available in ranges anywhere from 400 MHz to 8 GHz while providing very low tuning sensitivities for performance optimization. The unique construction of CRO oscillators and the implementation of the 'tabless' resonator design provides additional microphonic immunization and reduced phase hits in high data rate backhaul radio systems.

Part Number	Low Freq (MHz)	High Freq (MHz)	Vtune (Vdc)	Kvco (MHz/V) (typ)	Output Power (dBm)(typ)	PN @10kHz (dBc/Hz) (typ)	2nd Harm (dBc)(typ)	Vcc (Vdc)	Icc (mA) (typ)	Pushing (MHz/V) (max)	Pulling (MHz) (max)	Size (Inches)	Package
CRO0462A-LF	461	464	0.5 - 4.5	2.5	-4.00	-123	-15	5	40	<.5	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO0815A-LF	815	815	0.5 - 4.5	3	1.00	-122	-5	5	15	<.5	<.5	0.5 x 0.5 x 0.13	MINI-16HL-SM
CRO1000B-LF	1000	1000	0 - 3.3	4	3.00	-121	-15	5	18	<0.5	<0.5	0.5 x 0.5 x 0.13	MINI-16HL-SM
CRO1140A-LF	1140	1140	0.5 - 4.5	3	3.00	-120	-10	5	22	<.2	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO1507A-LF	1504	1511	0.5 - 4.5	7	2.50	-117	-20	5	19	<.5	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO1600M-LF	1600	1600	0.5 - 4.5	5	3.00	-125	-15	8	30	<0.2	<0.5	0.5 x 0.5 x 0.22	MINI-16-SM
CRO1740A-LF	1720	1760	2 - 12	5	3.50	-118	-24	8	30	<.5	<.5	0.5 x 0.5 x 0.22	MINI-16-SM
CRO1940A-LF	1910	1970	0.5 - 4.5	21	3.50	-112	-30	5	22	<.1	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO2065B-LF	2005	2065	0.5 - 4.5	20	0.00	-112	-25	5	20	<.1	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO2120B-LF	2080	2158	0.5 - 4.75	22	3.00	-110	-22	5	23	<.1	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO2245A-LF	2130	2360	0.5 - 4.5	79	1.00	-103	-14	5	18	<.2	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO2242A-LF	2200	2285	0.5 - 4.5	25	4.50	-110	-15	5	20	<.1	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO2330A-LF	2300	2360	0.5 - 4.5	19	0.50	-111	-27	5	21	<.2	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO2390A-LF	2360	2420	0.5 - 4.5	27	0.00	-110	-20	5	19	<.1	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO2377A-LF	2370	2385	0.5 - 4.5	7	3.00	-116	-25	5	30	<.5	<.5	0.5 x 0.5 x 0.22	MINI-16-SM
CRO2490B-LF	2430	2550	0.5 - 4.5	40	3.50	-107	-20	5	19	<.1	<.2	0.5 x 0.5 x 0.22	MINI-16-SM
CRO2590B-LF	2480	2700	0.5 - 18	15	0.25	-111	-10	8	25	<.1	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO2530A-LF	2500	2560	0.5 - 4.5	30	0.00	-110	-15	5	17	<.1	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO2570A-LF	2520	2620	0.5 - 4.5	38	3.00	-107	-20	5	18	<.1	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO2605B-LF	2560	2650	0.5 - 4.5	30	4.00	-107	-15	5	25	<.1	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO2645A-LF	2615	2675	0.5 - 4.5	23	4.00	-109	-15	5	19	<.1	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO2665C-LF	2620	2710	0.5 - 4.5	30	5.00	-108	-15	5	18	<1.5	<1.5	0.5 x 0.5 x 0.22	MINI-16-SM
CRO2665D-LF	2640	2710	0.5 - 4.5	30	3.00	-109	-15	5	21	<.2	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO2780C-LF	2650	2910	0.5 - 18	20	0.00	-111	-15	8	26	<.1	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO2730A-LF	2665	2795	0.5 - 4.5	49	1.00	-103	-20	5	20	<.3	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO2700B-LF	2670	2730	0.5 - 4.5	20	6.50	-108	-21	5	18	<.2	<.2	0.5 x 0.5 x 0.22	MINI-16-SM
CRO2715D-LF	2670	2760	0.5 - 4.5	34	5.00	-107	-15	5	18	<.1	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO2845A-LF	2770	2920	0.5 - 4.5	52	10.00	-106	-20	5	20	<.1	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO2840A-LF	2810	2870	0.5 - 4.5	34	0.00	-109	-18	4	12	<.1	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO2930A-LF	2876	2984	0.5 - 4.5	60	10.00	-105	-20	5	20	<.1	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO2960A-LF	2945	2975	0.5 - 4.5	13	7.00	-112	-16	5	20	<.1	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO3000B-LF	3000	3000	0.5 - 4.5	11	9.00	-115	-20	5	20	<.5	<.5	0.5 x 0.5 x 0.22	MINI-16-SM
CRO3069A-LF	3064	3074	0.5 - 4.5	12	2.50	-116	-22	5	20	<.1	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO3263A-LF	3206	3320	0.5 - 4.5	47	1.50	-103	-15	5	26	<.2	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO3425B-LF	3420	3430	0.5 - 4.5	8	2.00	-110	-15	5	19	<.1	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO3600C-LF	3550	3650	0.5 - 4.5	60	3.00	-100	-15	5	30	<.2	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO3643A-LF	3638	3648	0.5 - 4.5	6	3.50	-112	-20	5	24	<.1	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO3725A-LF	3715	3735	0.5 - 4.5	8	3.00	-110	-15	5	24	<.5	<.3	0.5 x 0.5 x 0.22	MINI-16-SM
CRO3956A-LF	3951	3961	0.5 - 4.5	15	2.00	-107	-10	5	22	<.1	<0.5	0.5 x 0.5 x 0.22	MINI-16-SM
CRO4166A-LF	4166	4166	0.5 - 4.5	10	6.00	-103	-15	5	25	<.1	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO4315A-LF	4315	4315	0.5 - 4.5	10	6.00	-103	-15	5	25	<.2	<.1	0.5 x 0.5 x 0.22	MINI-16-SM
CRO5216Z-LF	5211	5221	0.5 - 4.5	6	3.00	-106	-40	5	68	<.1	<.1	0.63 x 0.86 x 0.22	VCO-24H
CRO5406Z-LF	5401	5411	0.5 - 4.5	6	3.00	-106	-40	5	70	<.1	<.1	0.63 x 0.86 x 0.22	VCO-24H
CRO6000Z-LF	5990	6010	0.5 - 4.5	15	3.50	-108	-40	5	72	<.5	<.1	0.63 x 0.86 x 0.22	VCO-24H
CRO6300Z-LF	6290	6310	0.5 - 4.5	18	3.50	-105	-40	5	74	<.5	<.2	0.63 x 0.86 x 0.22	VCO-24H

DRO Series VCOs: 7 GHz - 14 GHz

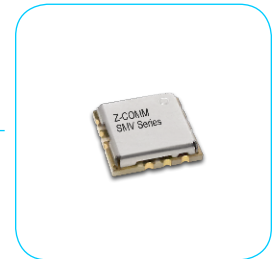


EXCEPTIONAL SPECTRAL PURITY • LOW POWER CONSUMPTION • ULTRA-FINE TUNING PRECISION

The DRO series Voltage Controlled Oscillator is a fundamental, narrowband signal source utilizing a high-Q dielectric resonator for optimal phase noise performance. The DRO VCO solution is currently being offered for frequencies operating within 7 to 14 GHz. This customizable, ultra-low noise oscillator series is available with both electrical tuning and mechanical tuning for fine frequency precision.

Part Number	Low Freq (MHz)	High Freq (MHz)	Vtune (Vdc)	Kvco (MHz/V) (typ)	Output Power (dBm)(typ)	PN @10kHz (dBc/Hz) (typ)	2nd Harm (dBc)(typ)	Vcc (Vdc)	Icc (mA) (typ)	Pushing (MHz/V) (max)	Pulling (MHz) (max)	Size (Inches)	Package
DRO7700A	7700	7700	0-12	0.7	0.00	-103	-25	5	23	1	1	0.91 x 0.91 x 0.51	SDRO
DRO8000A	8000	8000	0-12	1	0.00	-102	-25	5	23	1	1	0.91 x 0.91 x 0.51	SDRO
DRO8100A	8100	8100	0-12	1	0.00	-102	-25	5	25	1	1	0.91 x 0.91 x 0.51	SDRO
DRO8800A	8800	8800	0-12	0.5	2.00	-104	-30	5	18	1	1	0.91 x 0.91 x 0.51	SDRO
DRO9000A	9000	9000	0-12	0.6	1.00	-106	-30	5	18	1	1	0.91 x 0.91 x 0.51	SDRO
DRO9900A	9900	9900	0-12	0.9	1.00	-103	-30	5	18	1	2	0.91 x 0.91 x 0.51	SDRO
DRO10000A	10000	10000	0-12	0.5	0.00	-102	-25	5	20	1	2	0.91 x 0.91 x 0.51	SDRO
DRO10150A	10150	10150	0-12	0.5	0.00	-103	-30	5	18	1	2	0.91 x 0.91 x 0.51	SDRO
DRO10500A	10500	10500	0-12	0.5	2.00	-102	-30	5	23	1	2	0.91 x 0.91 x 0.51	SDRO
DRO11050A	11050	11050	0-12	0.8	2.00	-103	-30	5	25	1	2	0.91 x 0.91 x 0.51	SDRO
DRO11150A	11150	11150	0-12	0.6	1.00	-106	-35	5	23	1	1.5	0.91 x 0.91 x 0.51	SDRO
DRO11750A	11750	11750	0-12	0.5	0.00	-104	-30	5	23	1	1.5	0.91 x 0.91 x 0.51	SDRO
DRO12000A	12000	12000	0-12	0.5	0.00	-106	-35	5	23	1	1.5	0.91 x 0.91 x 0.51	SDRO
DRO12100A	12100	12100	0-12	0.7	0.00	-107	-35	5	23	1	1.5	0.91 x 0.91 x 0.51	SDRO
DRO12600A	12600	12600	0-12	0.5	0.00	-102	-25	5	23	1	1.5	0.91 x 0.91 x 0.51	SDRO

SMV Series VCOs: 60 MHz - 6 GHz



EXCEPTIONAL SPECTRAL PURITY • LOW POWER CONSUMPTION • ULTRA-FINE TUNING PRECISION

The SMV series VCO provides the ideal combination of phase noise, power and size. Residing in a 0.3" x 0.3" x 0.08" package, this oscillator series offers a wide range of products from 60 MHz to 6 GHz while providing exceptional phase noise performance. They are further heightened by consuming little power, making them a perfect fit for any remote wireless system.

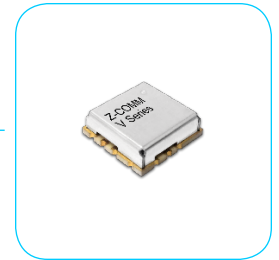
Part Number	Low Freq (MHz)	High Freq (MHz)	Vtune (Vdc)	Kvco (MHz/V) (typ)	Output Power (dBm)(typ)	PN @10kHz (dBc/Hz) (typ)	2nd Harm (dBc)(typ)	Vcc (Vdc)	Icc (mA) (typ)	Pushing (MHz/V) (max)	Pulling (MHz) (max)	Size (Inches)	Package
SMV0135A-LF	120	150	0.5-4.5	12	5.00	-100	-11	5	20	<2	<1	0.3 x 0.3 x 0.08	SUB-L
SMV0350A-LF	349	351	0-3	15	0.00	-101	-22	3.3	15	<3	<1	0.3 x 0.3 x 0.08	SUB-L
SMV0670A-LF	641	687	0.5-3	65	3.00	-103	-10	2.7	10	<5	<5	0.3 x 0.3 x 0.08	SUB-L
SMV0780L-LF	750	810	0.5-3	40	3.00	-105	-10	2.7	9	<5	<5	0.3 x 0.3 x 0.08	SUB-L
SMV0912A-LF	775	1055	0-5	83	0.50	-95	-15	5	15	<3	<2	0.3 x 0.3 x 0.08	SUB-L
SMV0850C-LF	800	900	0.5-4.5	61	8.00	-98	-20	5	25	<5	<5	0.3 x 0.3 x 0.08	SUB-L
SMV0868A-LF	858	878	0.5-2.5	85	2.50	-98	-10	3	6	<5	<5	0.3 x 0.3 x 0.08	SUB-L
SMV0978L-LF	975	995	0.5-2.5	76	4.00	-97	-12	3	7	<2	<6	0.3 x 0.3 x 0.08	SUB-L
SMV1100C-LF	980	1200	0.5-4.5	125	8.00	-98	-13	5	26	<10	<10	0.3 x 0.3 x 0.08	SUB-L
SMV1365C-LF	1265	1465	0.5-4.5	113	8.00	-98	-7	5	21	<5	<10	0.3 x 0.3 x 0.08	SUB-L
SMV1450A-LF	1350	1550	0.5-4.5	88	0.00	-98	-8	3	11	<5	<2	0.3 x 0.3 x 0.08	SUB-L
SMV1440L-LF	1380	1500	0-3	99	0.00	-93	-15	3	13	<3	<5	0.3 x 0.3 x 0.08	SUB-L
SMV1505A-LF	1505	1505	0-5	31	2.00	-99	-18	3	13	<5	<4	0.3 x 0.3 x 0.08	SUB-L
SMV1600L-LF	1590	1610	.5-2.5	125	4.00	-91	-5	3	10	<7	<10	0.3 x 0.3 x 0.08	SUB-L
SMV1740C-LF	1640	1840	0.5-4.5	95	8.00	-90	-10	5	20	<8	<10	0.3 x 0.3 x 0.08	SUB-L

Part Number	Low Freq (MHz)	High Freq (MHz)	Vtune (Vdc)	Kvco (MHz/V) (typ)	Output Power (dBm)(typ)	PN @10kHz (dBc/Hz) (typ)	2nd Harm (dBc)(typ)	Vcc (Vdc)	Icc (mA) (typ)	Pushing (MHz/V) (max)	Pulling (MHz) (max)	Size (Inches)	Package
SMV1679L-LF	1678	1680	0 - 5	50	-5.00	-84	-10	5	7	<10	<20	0.3 x 0.3 x 0.08	SUB-L
SMV1845-LF	1815	1875	0.3 - 4.7	83	7.00	-92	-10	5	16	<7	<7	0.3 x 0.3 x 0.08	SUB-L
SMV2020L-LF	1860	2180	0.5 - 4.5	148	5.00	-91	-9	4.7	13	<9	<12	0.3 x 0.3 x 0.08	SUB-L
SMV2300A-LF	1900	2300	0.5 - 4.5	139	4.00	-93	-10	5	14	<4	<7	0.3 x 0.3 x 0.08	SUB-L
SMV2100L-LF	2050	2150	0 - 3	155	8.00	-85	-8	3	15	<25	<25	0.3 x 0.3 x 0.08	SUB-L
SMV2200L-LF	2135	2285	0 - 3	165	9.50	-83	-15	3	17	<27	<21	0.3 x 0.3 x 0.08	SUB-L
SMV2365C-LF	2180	2550	0.5 - 4.5	140	8.00	-88	-9	5	14	<10	<20	0.3 x 0.3 x 0.08	SUB-L
SMV2278A-LF	2275	2280	0.3 - 3	147	4.50	-91	-10	3	13	<6	<8	0.3 x 0.3 x 0.08	SUB-L
SMV2390L-LF	2290	2485	0 - 4	130	10.00	-93	-9	5	17	<7	<19	0.3 x 0.3 x 0.08	SUB-L
SMV2500L-LF	2400	2484	0 - 3	105	10.50	-86	-20	3	20	<21	<18	0.3 x 0.3 x 0.08	SUB-L
SMV2560A-LF	2435	2675	0.4 - 2.9	172	5.00	-82	-12	3	19	<31	<13	0.3 x 0.3 x 0.08	SUB-L
SMV2810A-LF	2725	2900	1 - 4	150	9.00	-84	-23	4.1	20	<18	<18	0.3 x 0.3 x 0.08	SUB-L
SMV2920C-LF	2820	3020	0.5 - 4.5	125	8.00	-85	-15	5	29	<13	<10	0.3 x 0.3 x 0.08	SUB-L
SMV2950A-LF	2850	3050	0 - 2.5	125	3.00	-85	-18	3	15	<15	<10	0.3 x 0.3 x 0.08	SUB-L
SMV3400C-LF	3180	3430	0.5 - 4.5	80	8.00	-89	-20	5	29	<13	<10	0.3 x 0.3 x 0.08	SUB-L
SMV3417E-LF	3415	3420	0 - 2.5	67	0.00	-81	-25	3	7	<25	<10	0.3 x 0.3 x 0.08	SUB-L
SMV3895A-LF	3815	3975	0.5 - 2.5	140	2.00	-84	-15	2.8	11	<5	<21	0.3 x 0.3 x 0.08	SUB-L
SMV4051A-LF	4030	4070	0 - 5	55	2.25	-83	-15	5	18	<5	<3	0.3 x 0.3 x 0.08	SUB-L
SMV4596B-LF	4595	4598	0 - 2.5	110	-1.00	-81	-25	2.8	8	<5	<8	0.3 x 0.3 x 0.08	SUB-L
SMV5000E-LF	4780	5356	0.3 - 4.7	165	0.00	-81	-20	5	27	<11	<4	0.3 x 0.3 x 0.08	SUB-L
SMV5550B-LF	5000	6000	0 - 10	135	3.00	-80	-35	5	24	<20	<10	0.3 x 0.3 x 0.08	SUB-L
SMV5320A-LF	5245	5395	1 - 4	170	0.00	-81	-20	5	27	<11	<4	0.3 x 0.3 x 0.08	SUB-L
SMV5750A-LF	5700	5800	1 - 4	90	0.00	-86	-30	5	26	<4	<5	0.3 x 0.3 x 0.08	SUB-L

V Series VCOs: 40 MHz - 8 GHz

LOW PHASE NOISE • LINEAR TUNING • OCTAVE BANDWIDTH

The V series comes available in the industry standard 0.5" x 0.5" package size and offers the widest selection of products encompassing 40 MHz to 6.5 GHz. Utilizing lumped element or microstrip resonator technology, the V series are specially designed for applications requiring either narrowband tuning or frequency bandwidths covering more than an octave.



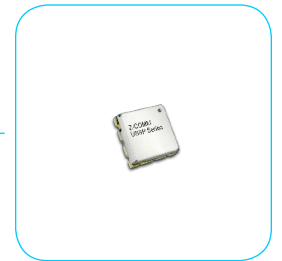
Part Number	Low Freq (MHz)	High Freq (MHz)	Vtune (Vdc)	Kvco (MHz/V) (typ)	Output Power (dBm)(typ)	PN @10kHz (dBc/Hz) (typ)	2nd Harm (dBc)(typ)	Vcc (Vdc)	Icc (mA) (typ)	Pushing (MHz/V) (max)	Pulling (MHz) (max)	Size (Inches)	Package
V061ME01-LF	45	77	1 - 10	5	5.50	-113	-6	5	23	<1	<5	0.5 x 0.5 x 0.22	MINI-14S
V093ME01-LF	88	98.2	0.5 - 4.5	6.4	8.00	-127	-12	5	17	<1	<1	0.5 x 0.5 x 0.22	MINI-16
V150ME03-LF	100	200	0 - 12.5	10	8.00	-115	-10	12	19	<2	<5	0.5 x 0.5 x 0.13	MINI-16-L
V135ME01-LF	105	165	1 - 5.5	22	0.00	-108	-10	5	20	<2	<1	0.5 x 0.5 x 0.10	MINI-14S-UL
V155ME05-LF	121	163	0.5 - 4.5	14	8.00	-121	-18	5	18	<1	<1	0.5 x 0.5 x 0.22	MINI-16
V220ME02-LF	200	239	0.5 - 4.5	18	7.50	-121	-16	5	19	<1	<1	0.5 x 0.5 x 0.22	MINI-16
V285ME05-LF	275	305	0.5 - 4.5	20	4.75	-105	-15	4.5	20	<4	<1	0.5 x 0.5 x 0.13	MINI-14S-L
V350ME52-LF	350	700	0 - 10	45	4.00	-99	-5	5	13	<4	<2	0.5 x 0.5 x 0.22	MINI-14S
V418ME03-LF	390	406	0.5 - 4.5	6	0.00	-118	-14	4.7	16	<1	<5	0.5 x 0.5 x 0.13	MINI-16M-L
V560MC03-LF	400	800	0 - 12	56	6.00	-105	-5	5	18	<4	<3	0.5 x 0.5 x 0.22	MINI-14S
V560ME09-LF	400	800	4 - 4.6	124	0.00	-102	-30	5	13	<7	<1	0.5 x 0.5 x 0.13	MINI-16-L
V500ME03-LF	500	1000	0 - 11	54	10.00	-105	-13	12	25	<5	<10	0.5 x 0.5 x 0.22	MINI-16-SM
V585ME73-LF	600	1200	0 - 13	58	8.50	-100	-12	10	18	<3	<7	0.5 x 0.5 x 0.22	MINI-16-SM
V585ME41-LF	720	1750	0.75 - 21	58	5.50	-98	-15	5	18	<2	<8	0.5 x 0.5 x 0.13	MINI-14S-L
V585ME30-LF	800	1600	1 - 21	60	8.00	-101	-5	11.5	16	<3	<8	0.5 x 0.5 x 0.22	MINI-14S
V580ME13-LF	830	970	0.5 - 4.5	51	5.00	-109	-12	5	17	<3	<1	0.5 x 0.5 x 0.22	MINI-16
V585ME48-LF	950	2050	0 - 15	81	4.00	-98	-30	10	19	<2	<3	0.5 x 0.5 x 0.13	MINI-16HL-SM
V582ME19-LF	980	1155	0.5 - 4.5	60	5.00	-104	-17	5	30	<4	<1	0.5 x 0.5 x 0.13	MINI-14S-L
V585ME72-LF	1000	2000	0.75 - 21	65	5.00	-99	-30	4.75	17	<3	<2	0.5 x 0.5 x 0.13	MINI-16-L
V602ME55-LF	1000	1350	0.5 - 4.5	130	3.50	-98	-15	3	10	<5	<4	0.5 x 0.5 x 0.13	MINI-14S-L
V582ME18-LF	1020	1100	1 - 4	47	11.00	-107	-19	5	32	<1	<3	0.5 x 0.5 x 0.13	MINI-14S-L
V585ME66-LF	1100	2500	0.3 - 20	85	8.50	-95	-10	10	21	<7	<11	0.5 x 0.5 x 0.13	MINI-16-L

Part Number	Low Freq (MHz)	High Freq (MHz)	Vtune (Vdc)	Kvco (MHz/V) (typ)	Output Power (dBm)(typ)	PN @10kHz (dBc/Hz) (typ)	2nd Harm (dBc)(typ)	Vcc (Vdc)	Icc (mA) (typ)	Pushing (MHz/V) (max)	Pulling (MHz) (max)	Size (Inches)	Package
V602ME15-LF	1100	1400	0.5 - 4.5	130	7.50	-99	-15	5	15	<3	<13	0.5 x 0.5 x 0.13	MINI-14S-L
V585ME28-LF	1200	2200	1 - 20	75	8.50	-100	-18	5	25	<6	<11	0.5 x 0.5 x 0.13	MINI-14S-L
V602ME33-LF	1375	1700	0.5 - 4.5	97	1.00	-100	-14	5.0	14	<2	<5	0.5 x 0.5 x 0.13	MINI-14S-L
V586ME06-LF	1400	2050	1.75 - 12	84	6.50	-98	-8	12	20	<4	<15	0.5 x 0.5 x 0.13	MINI-14S-L
V585ME19-LF	1500	2000	.8 - 20	34	5.00	-101	-10	10	15	<3	<9	0.5 x 0.5 x 0.22	MINI-14S
V600ME10-LF	1600	3200	0.5 - 20	108	8.00	-89	-25	5	26	<16	<10	0.5 x 0.5 x 0.13	MINI-16-L
V585ME47-LF	1600	2700	0 - 20	65	5.00	-96	-30	10	40	<5	<4	0.5 x 0.5 x 0.13	MINI-16HL-SM
V600ME20-LF	1700	2800	0.5 - 15	118	6.50	-95	-20	5	21	<5	<8	0.5 x 0.5 x 0.13	MINI-16-L
V674ME25-LF	1820	2480	0.5 - 9.5	98	4.50	-91	-19	10	13	<5	<18	0.5 x 0.5 x 0.22	MINI-14H
V626ME16-LF	1970	2130	0.5 - 11	36	2.50	-105	-25	5	19	<2	<2	0.5 x 0.5 x 0.13	MINI-16-L
V626ME01-LF	1990	2380	0.5 - 15	51	10.00	-99	-6	9	17	<2	<14	0.5 x 0.5 x 0.16	MINI-14H-LOW
V626ME10-LF	2000	2500	1 - 14	53	3.50	-97	-7	9	18	<2	<12	0.5 x 0.5 x 0.13	MINI-14H-L
V600ME14-LF	2000	4000	0 - 24	100	6.50	-86	-15	5	27	<10	<14	0.5 x 0.5 x 0.16	MINI-16-LOW
V626ME21-LF	2250	2790	1.5 - 13	60	3.00	-98	-20	8	28	<4	<14	0.5 x 0.5 x 0.13	MINI-16-L
V800ME08-LF	2400	2485	0.5 - 4.5	47	5.50	-96	-13	5	13	<8	<13	0.5 x 0.5 x 0.13	MINI-14H-L
V674ME29-LF	2400	2900	0.5 - 4.5	220	3.00	-86	-20	5	23	<6	<8	0.5 x 0.5 x 0.22	MINI-16
V805ME12-LF	2600	3110	1.75 - 12	66	7.50	-92	-20	12	23	<5	<20	0.5 x 0.5 x 0.13	MINI-14H-L
V630ME05-LF	2665	2810	0.5 - 4.5	73	5.00	-97	-14	4.5	11	<4	<21	0.5 x 0.5 x 0.22	MINI-14H
V600ME31-LF	2700	5400	0 - 24	140	7.00	-75	-20	5	25	<53	<18	0.5 x 0.5 x 0.16	MINI-16-LOW
V810ME08-LF	2750	3500	0.5 - 9.5	120	6.00	-88	-15	10	24	<6	<13	0.5 x 0.5 x 0.13	MINI-14H-L
V846ME29-LF	2900	4400	1 - 22	90	8.00	-80	-18	8	26	<8	<26	0.5 x 0.5 x 0.13	MINI-16-L
V600ME45-LF	3000	6000	0 - 24	147	6.00	-74	-12	12	24	<22	<21	0.5 x 0.5 x 0.16	MINI-16-LOW
V844ME21-LF	3100	3600	0.25 - 4.75	165	6.00	-82	-15	5	21	<14	<10	0.5 x 0.5 x 0.22	MINI-14S
V846ME30-LF	3350	4550	0 - 20	70	4.00	-85	-15	5	25	<10	<20	0.5 x 0.5 x 0.13	MINI-16-L
V844ME02-LF	3400	3600	1.0 - 5.0	94	3.00	-88	-15	5	18	<1	<6	0.5 x 0.5 x 0.13	MINI-14S-L
V900ME01-LF	3500	4000	2 - 18	70	5.00	-88	-45	8	24	<9	<12	0.5 x 0.5 x 0.22	MINI-14H
V910ME20-LF	3920	4520	1 - 7	168	4.00	-83	-23	5	30	<14	<10	0.5 x 0.5 x 0.13	MINI-14S-L
V844ME05-LF	3970	4150	0.5 - 4.5	65	3.00	-86	-20	5	15	<5	<8	0.5 x 0.5 x 0.13	MINI-14S-L
V950ME09-LF	4200	5000	1 - 12	124	13.00	-85	-18	12	35	<10	<28	0.5 x 0.5 x 0.13	MINI-14S-L
V950ME26-LF	4600	5400	0.3 - 9.5	110	5.00	-82	-20	5	28	<10	<14	0.5 x 0.5 x 0.22	MINI-14S
V940ME19-LF	4750	5100	0.5 - 14	36	6.00	-92	-20	10	21	<5	<15.4	0.5 x 0.5 x 0.13	MINI-14S-L
V940ME29-LF	4900	5500	0 - 10	87	4.00	-88	-25	5	28	<5	<15	0.5 x 0.5 x 0.22	MINI-14S
V950ME25-LF	5000	6000	0 - 22	56	0.00	-88	-32	5	22	<8	<8	0.5 x 0.5 x 0.13	MINI-16HL-SM
V940ME11-LF	5220	5420	0.5 - 4.5	100	3.75	-83	-20	4.25	24	<5	<17	0.5 x 0.5 x 0.13	MINI-14S-L
V940ME24-LF	5500	5850	0 - 9	75	3.00	-87	-25	5	36	<9	<19	0.5 x 0.5 x 0.22	MINI-14S
V940ME28-LF	5840	6040	0.5 - 4.5	85	0.50	-85	-15	5	28	<10	<8	0.5 x 0.5 x 0.22	MINI-14S
V956ME01-LF	6175	6325	0.3 - 4.7	70	2.00	-85	-30	5	26	<16	<15	0.5 x 0.5 x 0.13	MINI-14S-L
V965ME06-LF	6380	6420	0.5 - 4.5	80	-1.50	-89	-19	5	50	<11	<13	0.5 x 0.5 x 0.13	MINI-14S-L
V965ME04-LF	6500	6550	0.5 - 4.5	80	-2.50	-85	-19	5	50	<6	<12	0.5 x 0.5 x 0.13	MINI-14S-L

USSP Series VCOs: 150 MHz - 4 GHz

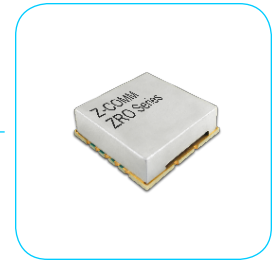
ULTRA-COMPACT SIZE • LOW PHASE NOISE • LOW POWER CONSUMPTION

The USSP series is the smallest VCO currently available which is housed in a package measuring 0.2" x 0.2" x 0.06". In addition to being uniquely characterized by their ultra-small size, they also provide exceptionally low power consumption, typically <30mW, making them ideal for mobile radio communication systems and portable satellite terminals.



Part Number	Low Freq (MHz)	High Freq (MHz)	Vtune (Vdc)	Kvco (MHz/V) (typ)	Output Power (dBm)(typ)	PN @10kHz (dBc/Hz) (typ)	2nd Harm (dBc)(typ)	Vcc (Vdc)	Icc (mA) (typ)	Pushing (MHz/V) (max)	Pulling (MHz) (max)	Size (Inches)	Package
USSP1220-LF	1210	1230	0.5 - 3	52	3.00	-101	-15	3.3	13	<6	<3	0.2 x 0.2 x 0.06	USSP
USSP1325-LF	1250	1400	0.5 - 4.5	75	3.00	-100	-15	5	23	<3	<3	0.2 x 0.2 x 0.06	USSP
USSP1570-LF	1540	1600	0.5 - 2.5	115	-1.00	-90	-25	2.7	7	<5	<4	0.2 x 0.2 x 0.06	USSP
USSP2350-LF	2300	2400	0.5 - 3	140	0.00	-82	-15	2.7	6	<40	<13	0.2 x 0.2 x 0.06	USSP
USSP2400-LF	2400	2485	0.5 - 2.5	120	-1.50	-83	-15	2.7	6	<35	<13	0.2 x 0.2 x 0.06	USSP

ZRO Series VCOs: 600 MHz - 3 GHz

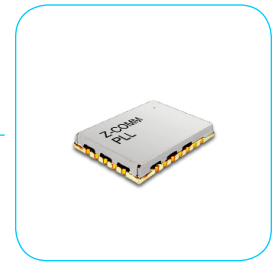


ULTRA-LOW PHASE NOISE • VOLTAGE BIAS STABILIZATION • TEMPERATURE COMPENSATED

The ZRO series VCOs are ceramic resonator based oscillators which have been designed with an innovative topology to help provide extremely low phase noise. Utilizing specialized voltage bias and temperature stabilization techniques, the ZRO oscillator maintains minimal tuning sensitivity and low harmonic suppression for maximum overall performance.

Part Number	Low Freq (MHz)	High Freq (MHz)	Vtune (Vdc)	Kvco (MHz/V) (typ)	Output Power (dBm)(typ)	PN @10kHz (dBc/Hz) (typ)	2nd Harm (dBc)(typ)	Vcc (Vdc)	Icc (mA) (typ)	Pushing (MHz/V) (max)	Pulling (MHz) (max)	Size (Inches)	Package
ZRO0736B2LF	736	737	0 - 6	2	9.00	-125	-24	8	25	<0.06	<0.30	0.75 x 0.75 x 0.22	ZMX-14-SM
ZRO0743B2LF	738	748	0 - 6	2	9.00	-130	-24	8	23	<0.06	<0.30	0.75 x 0.75 x 0.22	ZMX-14-SM
ZRO0820A1LF	819	821	0.5 - 4.5	5	2.00	-122	-15	5	13	<1	<1	0.5 x 0.5 x 0.22	MINI-16-SM
ZRO0915C2LF	902	928	0 - 11	2	5.00	-128	-35	10	23	<0.20	<1.5	0.75 x 0.75 x 0.22	ZMX-14-SM
ZRO1740G1LF	1720	1760	2 - 13.5	5	3.50	-118	-26	8.5	30	<1.5	<1	0.5 x 0.5 x 0.22	MINI-16-SM
ZRO1820A1LF	1818	1822	0.5 - 4.5	5	4.50	-119	-25	5	20	<1	<1	0.5 x 0.5 x 0.22	MINI-16-SM
ZRO1860A1LF	1860	1860	0.5 - 4.5	5	3.00	-118	-25	5	25	<.5	<1	0.5 x 0.5 x 0.22	MINI-16-SM
ZRO1920A1LF	1920	1920	0.5 - 4.5	5	2.50	-117	-25	5	25	<1	<3	0.5 x 0.5 x 0.22	MINI-16-SM
ZRO2300A1LF	2285	2315	0.5 - 4.5	13	3.00	-113	-13	5	18	<2	<2	0.5 x 0.5 x 0.22	MINI-16-SM
ZRO2405A1LF	2400	2410	0.5 - 4.5	8	3.00	-116	-12	5	23	<1	<1	0.5 x 0.5 x 0.22	MINI-16-SM
ZRO2460B1LF	2435	2485	1 - 10	8	6.00	-113	-15	8	30	<.7	<.7	0.5 x 0.5 x 0.22	MINI-16-SM

PLL Synthesizers: 80 MHz - 5.5 GHz

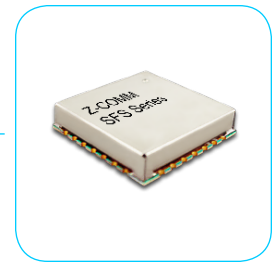


INTEGER-N AND FRACTIONAL-N • LOW PHASE NOISE • COMPACT SIZE

The programmable phase lock loop (PLL) solutions come in a selection of size and type. The PLLs are offered as either integer-N or fractional-N while utilizing a passive or active loop filter depending on the bandwidth. They can be quickly programmed through a 3-wire serial interface while providing very low spurious suppression and small step sizes. The PLL family of products are available in several different sizes ranging from 0.866" x 0.63" to as small as 0.5" x 0.5".

Part Number	Low Freq (MHz)	High Freq (MHz)	Step Size (kHz)	Output Power (dBm) (typ)	Spurs (dBc)	PN @10kHz (dBc/Hz) (typ)	2nd harm (dBc) (typ)	Vcc (Vdc)	Icc (mA) (typ)	Switch Speed (msec) (typ)	Size (Inches)	Package
PCA0090A	85	95	50	0.50	-65	-101	-10	3.3	25	4	0.5 x 0.5 x 0.13	CPLL
PCA0174A-LF	159	189	100	2.00	-70	-100	-13	5	40	2	0.5 x 0.5 x 0.13	CPLL
PCA0300A-LF	275	325	100	4.00	-65	-97	-7	5	18	5	0.5 x 0.5 x 0.13	CPLL
PCA0495B-LF	470	520	100	4.00	-65	-97	-10	3.3	25	3	0.5 x 0.5 x 0.13	CPLL
PSA1225AF-LF	1025	1425	1000	0.00	-75	-90	-10	12/5	40/25	1	0.63 x 0.86 x 0.14	PLL-24S1
PCA1292B-LF	1292	1298	1000	0.50	-70	-105	-15	3.3	23	2	0.5 x 0.5 x 0.13	CPLL
PCA1330A-LF	1320	1340	1000	3.00	-70	-99	-15	5	30	2	0.5 x 0.5 x 0.13	CPLL
PSA1525AF-LF	1325	1725	1000	3.00	-75	-90	-10	12/5	40/25	2	0.63 x 0.86 x 0.14	PLL-24S1
PCA1550A-LF	1500	1600	1000	1.50	-70	-101	-15	5	30	3	0.5 x 0.5 x 0.13	CPLL
PCA1550B-LF	1502	1510	1000	0.00	-70	-100	-15	3.3	30	2	0.5 x 0.5 x 0.13	CPLL
PSA1825AF-LF	1625	2025	1000	0.50	-77	-90	-15	12/5	30/20	1	0.63 x 0.86 x 0.14	PLL-24S1
PSA1685AF-LF	1680	1690	100	4.50	-70	-100	-15	5	40	1	0.63 x 0.86 x 0.14	PLL-24
PSA1975AF-LF	1775	2175	1000	0.00	-65	-90	-20	12/5	30/20	1	0.63 x 0.86 x 0.14	PLL-24S1
PSA2100AF-LF	1900	2300	1000	0.00	-65	-90	-20	15/5	23/20	1	0.63 x 0.86 x 0.14	PLL-24S1
PCA2010A-LF	1990	2030	1000	2.50	-70	-100	-15	5	35	3	0.5 x 0.5 x 0.13	CPLL
PSA2150AF-LF	2000	2300	1000	5.00	-65	-90	-20	15/5	25/23	1	0.63 x 0.86 x 0.14	PLL-24S1
PVA2125C-LF	2025	2226	100	0.00	-65	-94	-15	5/3	21/10	3	0.6 x 0.6 x 0.22	PLL-V12C
PSA2275AF-LF	2075	2475	1000	0.00	-65	-90	-20	12/5	23/20	1	0.63 x 0.86 x 0.14	PLL-24S1
PSA2575AF-LF	2375	2775	1000	0.00	-70	-89	-20	12/5	30/20	1	0.63 x 0.86 x 0.14	PLL-24S1
PSA2570C	2500	2640	250	0.00	-70	-97	-15	5	29	1	0.63 x 0.86 x 0.22	PLL-24H
PSA3600C-LF	3580	3620	500	0.00	-70	-102	-15	5	31	2	0.63 x 0.86 x 0.22	PLL-24H

SFS Series Fixed Frequency PLLs: 500 MHz - 15 GHz

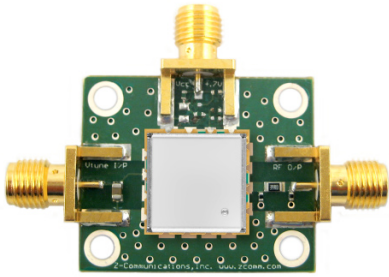


No EXTERNAL PROGRAMMING • ULTRA-LOW NOISE • SMALL SIZE

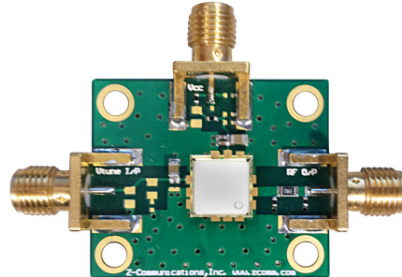
The SFS series is a fixed frequency PLL solution incorporating the phase detector, loop filter, VCO and PIC controller. It minimizes design complexities by eliminating the need for any external programming. It is ideal for any commercial application requiring a single frequency signal source within the range of 500 MHz to 15 GHz and it delivers superior phase noise performance by utilizing either a microstrip or ceramic resonator topology.

Part Number	Freq (MHz)	Output Power (dBm) (typ)	Spurs (dBc)	PN @10kHz (dBc/Hz) (typ)	2nd harm (dBc) (typ)	Vcc (Vdc)	Icc (mA) (typ)	Startup Lock Time (msec) (typ)	Size (Inches)	Package
SFS0792C-LF	792.5	0	-70	-118	-15	5/3	25/14	5	0.6 x 0.6 x 0.22	PLL-V12C
SFS0832C-LF	832	9	-70	-120	-15	5/3	25/14	5	0.6 x 0.6 x 0.22	PLL-V12C
SFS1000C-LF	1000	1	-70	-118	-12	5/3	25/14	5	0.6 x 0.6 x 0.22	PLL-V12C
SFS1200C-LF	1200	1	-70	-117	-13	5/3	25/14	5	0.6 x 0.6 x 0.22	PLL-V12C
SFS1265C-LF	1265	3	-70	-105	-10	5/3	33/11	5	0.6 x 0.6 x 0.22	PLL-V12C
SFS1280C-LF	1280	5.5	-70	-113	-15	5/3	25/14	5	0.6 x 0.6 x 0.22	PLL-V12C
SFS1385C-LF	1385	3	-70	-105	-10	5/3	33/11	5	0.6 x 0.6 x 0.22	PLL-V12C
SFS1500B-LF	1500	5	-70	-101	-20	5/3	35/10	1.2	0.6 x 0.6 x 0.13	PLL-V12N
SFS1600E-LF	1600	5	-65	-120	-12	8/3	35/10	3	0.6 x 0.6 x 0.22	PLL-V12C
SFS1680A-LF	1680	6	-80	-106	-25	5/3	31/9	1.2	0.6 x 0.6 x 0.13	PLL-V12N
SFS1685A-LF	1685	6	-80	-106	-25	5/3	31/9	1.2	0.6 x 0.6 x 0.13	PLL-V12N
SFS1770A-LF	1770	6	-70	-95	-15	5/3	35/9	1.2	0.6 x 0.6 x 0.13	PLL-V12N
SFS1875C-LF	1875	3	-70	-105	-18	5/3	28/10	3	0.6 x 0.6 x 0.22	PLL-V12C
SFS1900A-LF	1900	3	-70	-98	-20	5/3.3	25/10	1.2	0.6 x 0.6 x 0.13	PLL-V12N
SFS1980A-LF	1980	6	-70	-95	-20	5/3	35/10	1.2	0.6 x 0.6 x 0.13	PLL-V12N
SFS2200C-LF	2200	6	-70	-109	-10	5/3	30/11	2.0	0.6 x 0.6 x 0.22	PLL-V12C
SFS2400C-LF	2400	6	-70	-109	-10	5/3	30/11	2.0	0.6 x 0.6 x 0.22	PLL-V12C
SFS2476A-LF	2476	6	-70	-95	-20	5/3	35/9	1.2	0.6 x 0.6 x 0.13	PLL-V12N
SFS2500C-LF	2500	6	-70	-111	-20	5/3	30/11	2.0	0.6 x 0.6 x 0.22	PLL-V12C
SFS3000C-LF	3000	6	-70	-109	-10	5/3	30/11	2.0	0.6 x 0.6 x 0.22	PLL-V12C
SFS3500C-LF	3500	0	-65	-108	-15	5/3	30/11	2.0	0.6 x 0.6 x 0.22	PLL-V12C
SFS3900A-LF	3900	3	-65	-88	-20	5/3	33/15	0.3	0.6 x 0.6 x 0.13	PLL-V12N
SFS4000C-LF	4000	0	-65	-102	-12	5/3.3	32/11	2.0	0.6 x 0.6 x 0.22	PLL-V12C
SFS4250A-LF	4250	2.5	-65	-84	-25	5/3	33/15	0.3	0.6 x 0.6 x 0.13	PLL-V12N
SFS4500A-LF	4500	2.5	-65	-84	-25	5/3	33/15	0.3	0.6 x 0.6 x 0.13	PLL-V12N
SFS4875A-LF	4875	2.5	-65	-84	-25	5/3	33/15	0.3	0.6 x 0.6 x 0.13	PLL-V12N
SFS4900A-LF	4900	0	-65	-85	-25	5/3	33/15	0.3	0.6 x 0.6 x 0.13	PLL-V12N
SFS5200A-LF	5200	0	-65	-90	-25	5/3	33/15	0.3	0.6 x 0.6 x 0.13	PLL-V12N
SFS5280A-LF	5280	0	-65	-92	-25	4.3/3	28/11	0.3	0.6 x 0.6 x 0.13	PLL-V12N
SFS5375A-LF	5375	2.5	-70	-84	-25	5/3	33/11	0.3	0.6 x 0.6 x 0.13	PLL-V12N
SFS5490A-LF	5490	2	-70	-93	-30	5/3	33/11	0.3	0.6 x 0.6 x 0.13	PLL-V12N
SFS6400A-LF	6400	6	-65	-88	-20	5/3	40/11	0.3	0.6 x 0.6 x 0.13	PLL-V12N
SFS6520A-LF	6520	6	-65	-90	-20	5/3	40/11	0.3	0.6 x 0.6 x 0.13	PLL-V12N
SFS6800A-LF	6800	0	-65	-88	-20	5/3	33/11	0.3	0.6 x 0.6 x 0.13	PLL-V12N
SFS7100A-LF	7100	3	-65	-86	-20	5/3	35/11	0.3	0.6 x 0.6 x 0.13	PLL-V12N
SFS8300Z-LF	8300	-2	-70	-85	-25	5/3	85/11	3	1.0 x 1.0 x 0.22	SFS-L1
SFS8910Z-LF	8910	0	-70	-83	-20	5/3	90/11	3	1.0 x 1.0 x 0.22	SFS-L1
SFS9370Z-LF	9370	0	-85	-83	-40	5/3	90/11	3	1.0 x 1.0 x 0.22	SFS-L1
SFS10000Z-LF	10000	0	-70	-85	-30	5/3	90/11	3	1.0 x 1.0 x 0.22	SFS-L1
SFS10000C-LF	10000	0	-70	-100	-30	5/3	90/11	3	1.0 x 1.0 x 0.22	SFS-L1
SFS11000Z-LF	11000	0	-70	-84	-30	5/3	90/11	3	1.0 x 1.0 x 0.22	SFS-L1
SFS11300Z-LF	11300	0	-70	-82	-15	5/3	95/11	3	1.0 x 1.0 x 0.22	SFS-L1
SFS11800C-LF	11800	3	-70	-90	-30	5/3	90/11	3	1.0 x 1.0 x 0.22	SFS-L1
SFS13500Z-LF	13500	0	-65	-80	-30	5/3	90/11	3	1.0 x 1.0 x 0.22	SFS-L2
SFS15000Z-LF	15000	0	-65	-75	-20	5/3.5	125/12	3	1.0 x 1.0 x 0.22	SFS-L2

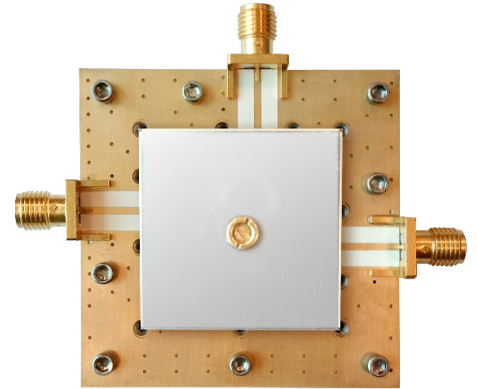
Evaluation Boards for Z-Comm VCOs



MINIEVAL
V, CRO and CLV Series VCOs

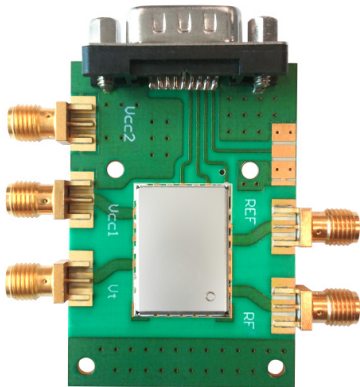


SMVEVAL
SMV Series VCOs

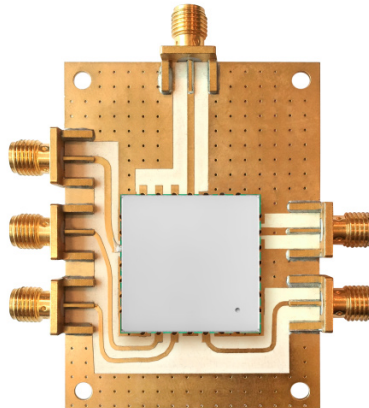


DROEVAL
DRO Series VCOs

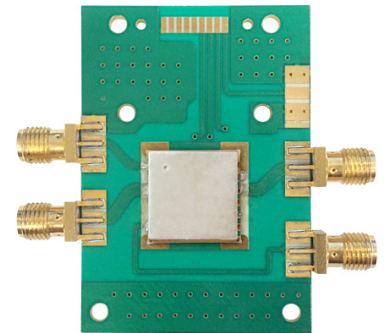
Evaluation Boards for Z-Comm PLLs



PLLEVAL
PSA and PSN Series PLLs

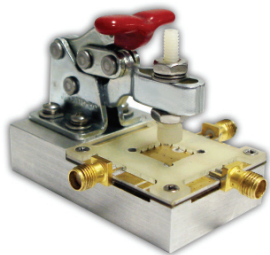


SFSL1EVAL
SFS Series PLLs with SFS-L1 package

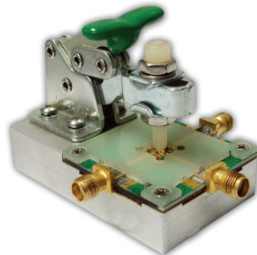


SFSEVAL
SFS Series PLLs with PLL-V12C
or PLL-V12N packages

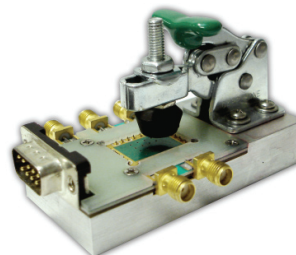
Test Fixtures for Z-Comm VCOs and PLLs



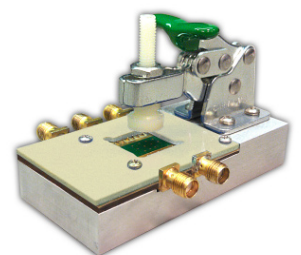
MINI-16-TF
V, CRO and CLV Series VCOs



SMV-TF
SMV Series VCOs

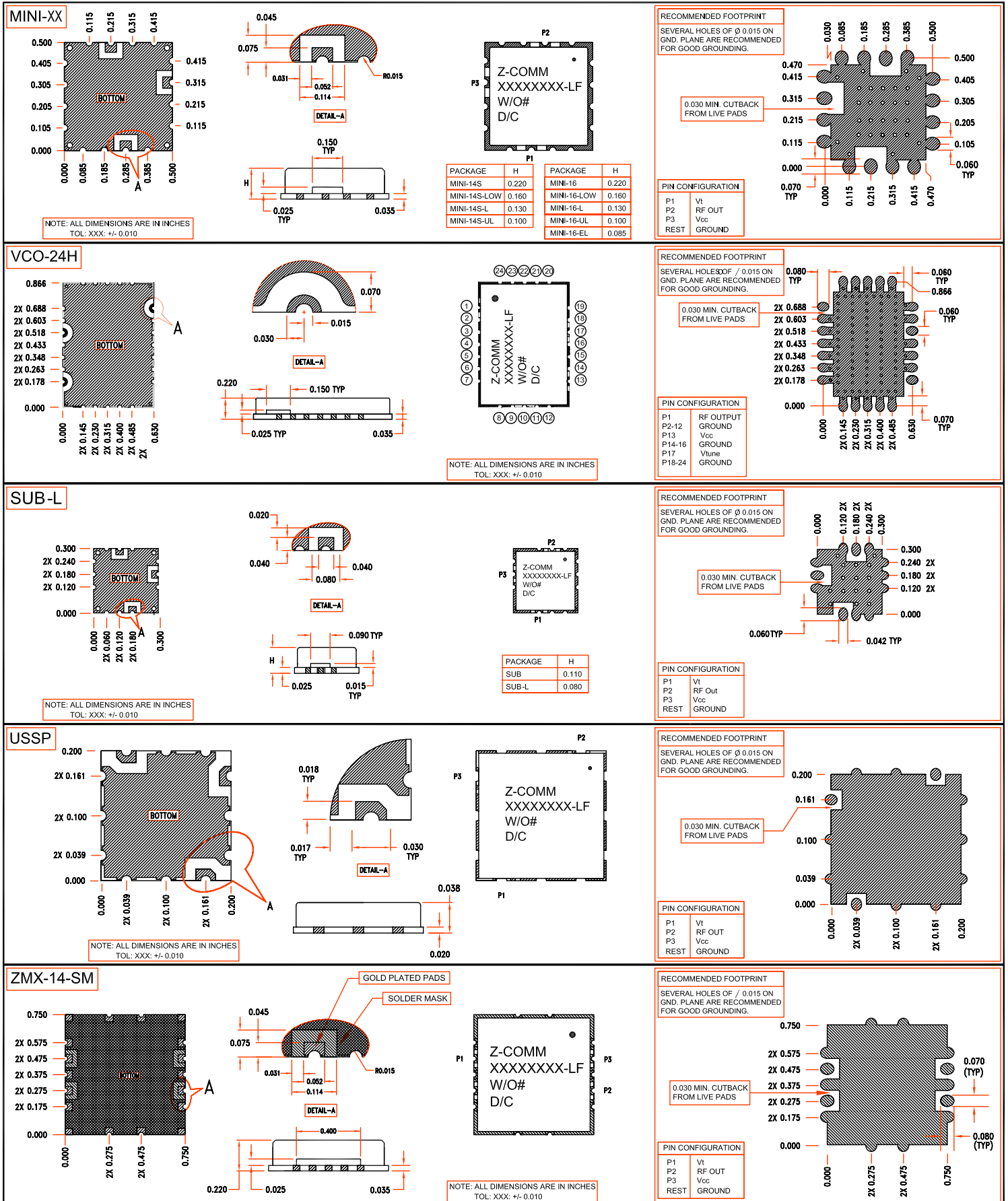


PLL-24-TF
PSN and PSA Series PLLs

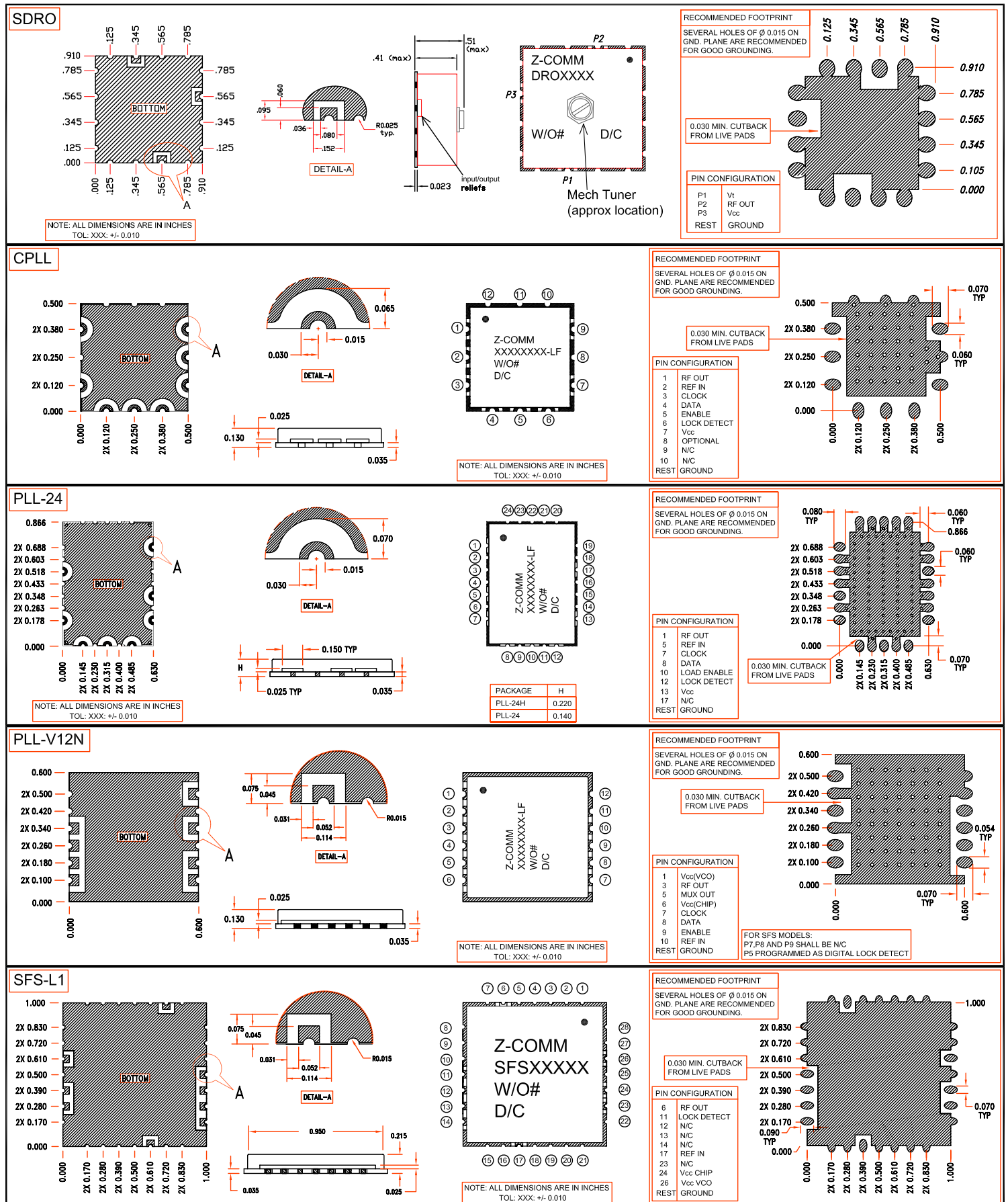


PLL-V12N-TF
SFS Series PLLs

VCO and PLL Outlines



VCO and PLL Outlines





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