



VOLTAGE CONTROLLED OSCILLATORS

15 MHz to 2120 MHz 50 Ω (Hermetic)



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)	DC OPERATING POWER	
	Min.	Max.		Min.	Max.	100 Hz	1 kHz	10 kHz	100 kHz	1 MHz				Typ.	Max.		V _{CC} Volts	Current (mA) Max.

LINEAR TUNING Wideband 15 MHz to 2120 MHz

POS-26	15	25	+7.0	1	11	—	-86	-105	-125	-145	0.06	0.04	1 - 4	-26	-15	60	12	20
POS-50	25	50	+8.5	1	16	—	-88	-110	-130	-150	0.06	0.04	2.0 - 2.6	-19	-12	100	12	20
POS-75	37.5	75	+8.0	1	16	—	-87	-110	-130	-150	0.15	0.11	3.1 - 3.8	-27	-16	100	12	20
POS-100	50	100	+8.3	1	16	—	-83	-107	-130	-150	0.6	0.2	4.2 - 4.8	-23	-18	100	12	20
POS-150	75	150	+9.5	1	16	—	-80	-103	-127	-147	0.8	0.3	5.8 - 6.7	-23	-17	100	12	20
POS-200	100	200	+10.0	1	16	—	-80	-102	-122	-142	1.0	0.2	7.1 - 8.6	-24	-20	100	12	20
POS-300	150	280	+10.0	1	16	—	-78	-100	-120	-140	1.8	0.3	9.5 - 13	-30	-20	100	12	20
POS-400	200	380	+9.5	1	16	—	-76	-98	-120	-140	1.8	0.3	13.7 - 16.9	-28	-20	100	12	20
POS-500W	250	500	+10.0	1	16	—	-79	-100	-120	-140	1.5	0.2	17 - 23	-25	-18	100	12	25
POS-535	300	525	+8.8	1	16	—	-70	-93	-116	-139	2.0	0.4	10.5 - 24	-26	-20	100	12	20
POS-765	485	765	+9.5	1	16	—	-61	-85	-108	-129	5.0	0.4	18 - 27	-21	-17	100	12	22
POS-800W	400	800	+8.0	0.5	18	—	-71	-93	-115	-137	3.0	0.5	18 - 50	-26	-18	100	10	25
POS-900W	500	900	+7.0	1	20	—	-75	-95	-115	-135	2.0	0.3	16 - 40	-26	-20	100	12	25
POS-1000W	500	1000	+7.0	1	16	—	-73	-93	-113	-133	6.0	1.5	30 - 42	-26	-20	100	12	20
POS-1025	685	1025	+9.0	1	16	—	-65	-84	-104	-124	5.0	0.6	21 - 36	-23	-18	100	12	22
POS-1060	750	1060	+12.0	1	20	—	-65	-90	-112	-132	50	3.0	18 - 32	-11	—	1000	8	30
POS-1400A	975	1400	+13.0	1	20	—	-65	-95	-115	-135	14	2.0	25 - 30	-16	—	4000	8	30
POS-2000A	1370	2000	+11.8	1	20	—	-73	-97	-117	-137	12	3.0	30 - 45	-24	-12	4000	8	30
POS-2120W	1060	2120	+8.0	0.5	20	—	-70	-97	-117	-137	27.0	2.5	35 - 120	-11	—	1000	12	28
POSA-138	118	138	+5.0	1	16	-72	-100	-125	-145	-163	0.07	0.03	2.3	-40	-30	2000	12	25
POSA-158	138	158	+5.0	1	16	-72	-100	-125	-145	-163	0.07	0.03	2.4	-40	-25	2000	12	25
POSA-960	800	960	+16.0	1	15	—	-84	-112	-130	-150	2.0	0.3	17 - 22	-30	-16	2000	15	50

5 V TUNING for PLL IC's 24 MHz to 755 MHz

POS-50P	24	29	+10.0	0.5	5	—	-92	-113	-134	-151	0.06	0.04	2-2.5	-18	-12	50	12	20
POS-75P	35	43	+9.0	0.5	5	—	-91	-113	-135	-151	0.15	0.11	2.5-4	-25	-20	100	12	20
POS-100P	48	59	+9.0	0.5	5	—	-92	-112	-134	-151	0.8	0.2	3.5-5	-30	-18	100	12	20
POS-150P	72	91	+10.0	0.5	5	—	-84	-104	-126	-147	0.8	0.3	6-9	-25	-17	100	12	20
POS-200P	95	120	+10.0	0.5	5	—	-77	-102	-123	-146	1.0	0.2	7-10	-30	-20	100	12	20
POS-300P	148	174	+10.0	0.5	5	—	-83	-105	-125	-145	1.8	0.3	10-14	-27	-20	100	12	20
POS-400P	194	220	+10.5	0.5	5	—	-82	-103	-124	-142	1.8	0.3	13-18	-25	-20	100	12	20
POS-535P	278	325	+10.0	0.5	5	—	-66	-95	-120	-138	2.0	0.4	17-22	-30	-20	100	12	20
POS-765P	486	510	+9.5	0.5	5	—	-70	-92	-116	-135	5.0	0.4	20-30	-26	-20	100	12	22
POS-1025P	680	755	+8.5	0.5	5	—	-74	-96	-116	-135	5.0	0.6	30-40	-24	-18	100	12	22

