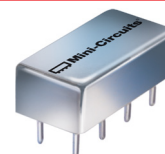


Plug-In

Voltage Controlled Oscillator

POS-900W+

Wideband 500 to 900 MHz



CASE STYLE: A06

Features

- 3 dB modulation bandwidth, 0.1 MHz typ.
- low phase noise
- excellent harmonic suppression, -30 dBc typ.
- hermetically sealed

Applications

- VHF/UHF receivers/transmitters
- agile communication systems
- catv distribution

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications

MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE dBc/Hz SSB at offset frequencies, kHz				TUNING					NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)		PULLING pk-pk @12 dB (MHz)	PUSHING (MHz/V)	DC OPERATING POWER	
	Min.	Max.		Typ.	1	10	100	1000	VOLTAGE RANGE (V)	SENSITIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)		Typ.	Typ.			Typ.	Typ.
POS-900W+	500	900	+8.5	-71	-94	-115	-135	1	20	16 - 40	113	0.1	-90	-30	-20	1.2	0.3	12	25

Pin Connections

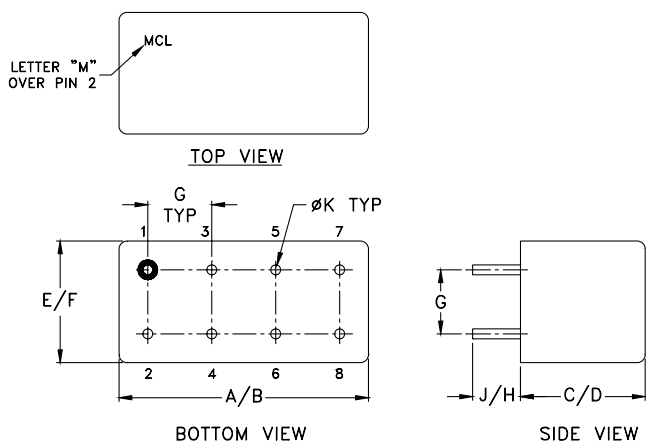
RF OUT	2
VCC	1
V-TUNE	8
GROUND	3,4,5,6,7
CASE GROUND	3,4,5,6,7

Maximum Ratings

Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	+15V
Absolute Max. Tuning Voltage (Vtune)	+25V

all specifications: 50 ohm system
Permanent damage may occur if any of these limits are exceeded.

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	wt
.770	.800	.285	.310	.370	.400	.200	.20	.14	.031	grams
19.558	20.32	7.239	7.874	9.398	10.16	5.08	5.08	3.556	0.7874	5.2

Notes

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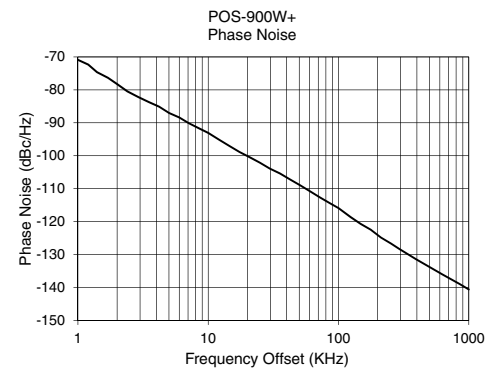
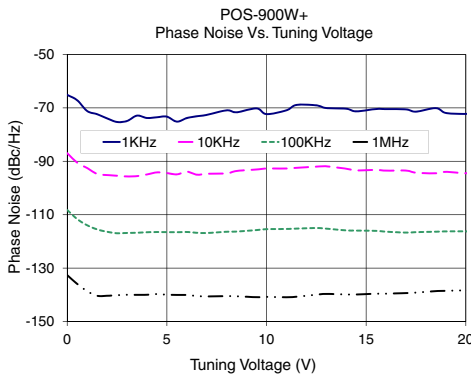
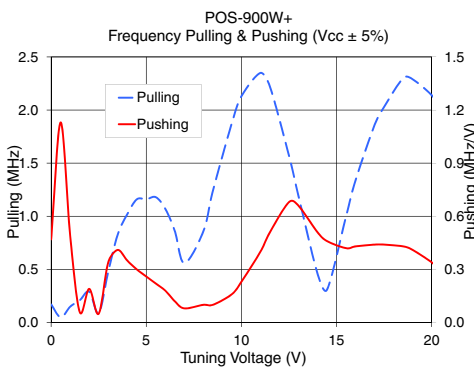
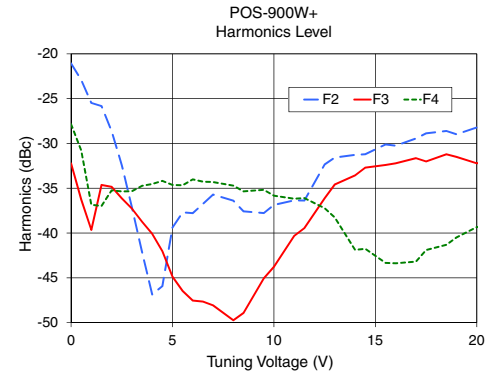
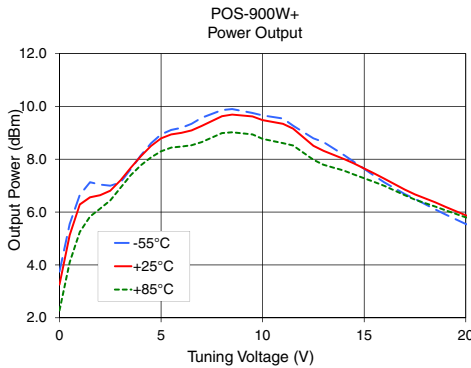
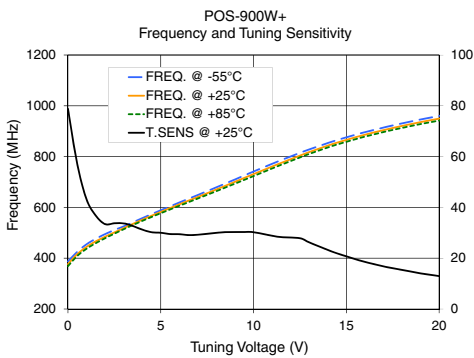


NON-CATALOG

Performance Data & Curves

POS-900W+

V TUNE	TUNE SENS (MHz/V)	FREQUENCY (MHz)			POWER OUTPUT (dBm)			Icc (mA)	HARMONICS (dBc)			FREQ. PUSH (MHz/V)	FREQ. PULL (MHz)	PHASE NOISE (dBc/Hz) at offsets				FREQ OFFSET (kHz)	PHASE NOISE at 2336 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	78.78	387.5	376.8	368.9	3.75	3.26	2.28	17.87	-21.1	-32.2	-27.9	0.47	0.17	-65.13	-87.0	-108.2	-132.6	1.0	-70.91
1.00	43.21	454.8	444.7	437.2	6.65	6.29	5.25	18.16	-25.5	-39.7	-36.9	0.49	0.15	-71.17	-92.5	-114.0	-138.6	2.0	-78.27
1.50	36.77	476.5	466.3	459.3	7.13	6.56	5.83	18.18	-25.8	-34.6	-37.0	0.06	0.21	-72.37	-94.7	-115.5	-140.4	3.5	-83.71
2.00	33.42	494.9	484.7	478.7	7.04	6.64	6.13	18.13	-28.6	-34.8	-35.2	0.19	0.29	-73.93	-95.1	-116.4	-140.4	6.0	-88.38
3.00	33.72	525.2	518.3	514.0	7.12	7.20	6.92	18.03	-37.1	-37.3	-35.3	0.34	0.48	-74.92	-95.7	-116.8	-140.0	8.5	-91.70
4.00	31.26	557.5	551.5	546.9	8.14	8.11	7.77	18.03	-46.9	-40.1	-34.5	0.35	1.02	-73.78	-94.9	-116.6	-140.0	10.0	-93.07
5.00	30.01	588.8	582.3	577.3	8.94	8.79	8.30	18.04	-39.4	-44.9	-34.6	0.26	1.16	-73.28	-94.4	-116.5	-140.0	20.8	-100.45
6.00	29.46	619.2	612.0	606.4	9.19	9.00	8.48	18.06	-37.8	-47.5	-34.0	0.18	1.07	-73.81	-93.9	-116.5	-140.1	35.5	-105.38
7.00	29.24	649.1	641.3	635.2	9.57	9.26	8.65	18.08	-35.7	-48.1	-34.3	0.08	0.56	-72.63	-94.7	-116.8	-140.6	60.7	-110.83
8.00	29.99	679.2	670.7	664.1	9.86	9.63	8.99	18.09	-36.4	-49.7	-34.7	0.10	0.86	-70.92	-94.5	-116.4	-140.5	86.7	-114.49
9.50	30.32	725.6	716.0	708.5	9.75	9.62	8.94	18.09	-37.8	-45.1	-35.2	0.16	1.88	-70.19	-93.1	-115.7	-140.9	100.0	-115.89
10.00	30.24	741.3	731.2	723.3	9.66	9.48	8.77	18.09	-36.9	-43.8	-35.8	0.23	2.13	-72.33	-92.7	-115.4	-140.8	148.1	-120.70
11.00	28.85	771.6	761.1	753.4	9.54	9.34	8.61	18.08	-36.4	-40.3	-36.2	0.40	2.35	-70.90	-92.7	-115.3	-140.9	177.0	-122.46
11.50	28.29	786.4	775.5	768.1	9.27	9.16	8.52	18.06	-36.4	-39.5	-36.1	0.51	2.22	-68.90	-92.4	-115.2	-140.7	211.6	-124.84
12.50	27.86	814.8	803.9	796.7	8.79	8.51	7.98	18.04	-32.3	-36.1	-37.2	0.68	1.57	-69.05	-92.0	-115.0	-139.9	302.4	-128.64
14.00	23.27	853.4	843.3	836.0	8.16	8.01	7.57	18.04	-31.3	-33.6	-41.9	0.51	0.46	-70.31	-92.8	-115.9	-139.9	361.5	-130.54
15.50	19.60	886.4	876.3	868.8	7.37	7.46	7.14	18.04	-30.1	-32.4	-43.3	0.42	1.00	-70.41	-93.2	-116.0	-139.6	507.5	-133.94
17.00	16.80	914.3	904.3	896.7	6.68	6.85	6.64	18.05	-29.5	-31.6	-43.2	0.44	1.86	-70.57	-93.5	-116.7	-139.3	606.7	-135.71
18.50	14.72	938.7	928.5	920.8	6.10	6.37	6.21	18.05	-28.6	-31.2	-41.3	0.43	2.30	-70.09	-94.5	-116.4	-138.6	851.6	-138.95
20.00	12.97	960.2	949.7	941.9	5.55	5.88	5.80	18.05	-28.2	-32.2	-39.3	0.34	2.14	-72.25	-94.5	-116.2	-138.3	1000.0	-140.58



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