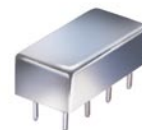


Plug-In

Voltage Controlled Oscillator

POS-1000W+

Wideband 500 to 1000 MHz



Features

- octave linear tuning
- 3 dB modulation bandwidth, 0.1 MHz typ.
- low phase noise
- excellent harmonic suppression, -26 dBc typ.
- output suitable for LO drive to 7 dBm mixers
- hermetically sealed

Applications

- test instruments-signal generators
- wideband frequency synthesizers
- agile communications systems
- CATV distribution and set-top converters
- cellular up and down converters
- HDTV

CASE STYLE: A06

PRICE: \$14.95 ea. QTY (5-49)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Electrical Specifications

FREQUENCY (MHz)		POWER OUTPUT (dBm)	TUNING VOLTAGE (V)		PHASE NOISE (dBc/Hz) SSB at offset frequencies: Typ.				PULLING pk-pk @ 12 dBr (MHz)	PUSHING (MHz/V)	TUNING SENSITIVITY (MHz/V)		HARMONICS (dBc)		3 dB MODULATION BANDWIDTH (MHz)	DC OPERATING POWER	
Min.	Max.	Typ.	Min.	Max.	1 kHz	10 kHz	100 kHz	1 MHz	Typ.	Typ.	Typ.	Typ.	Max.	Typ.	Vcc (volts)	Current (mA) Max.	
500	1000	+7.0	1	16	-73	-93	-113	-133	6.0	1.5	30-42	-26	-20	0.1	12	20	

Pin Connections

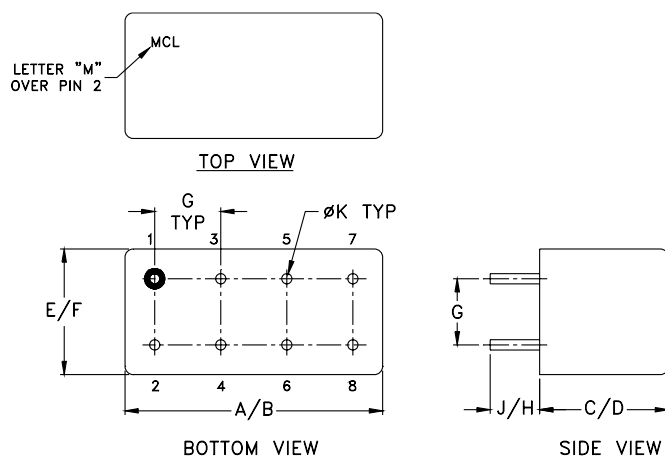
RF OUT	2
VCC	1
V-TUNE	8
GROUND	3,4,5,6,7
CASE GROUND	3,4,5,6,7

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)	+20V

all specifications: 50 ohm system

Outline Drawing



Outline Dimensions (inch)

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

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The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

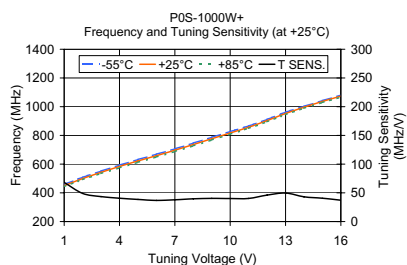
RF/IF MICROWAVE COMPONENTS

ALL NEW
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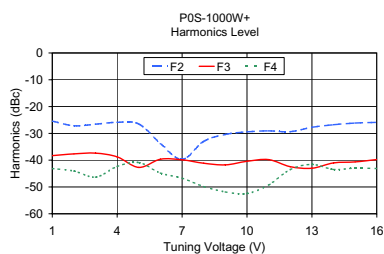
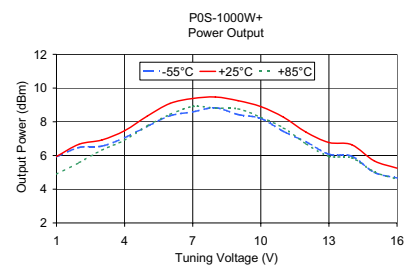
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Page 1 of 2

Performance Data & Curves

POS-1000W+



V TUNE	TUNING SENS. (MHz/V)	FREQUENCY (MHz)			POWER OUTPUT (dBm)		
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C
1.00	68.09	459.29	450.47	443.70	5.92	5.94	4.89
2.00	48.97	508.38	499.44	492.29	6.48	6.67	5.58
3.00	43.41	551.74	542.85	534.72	6.56	6.92	6.32
4.00	40.67	593.09	583.52	574.39	7.06	7.47	6.91
5.00	38.57	632.14	622.09	612.62	7.73	8.34	7.76
6.00	36.83	669.03	658.92	649.90	8.36	9.09	8.44
7.00	37.89	706.90	696.80	687.98	8.59	9.38	8.91
8.00	39.57	746.75	736.37	727.51	8.83	9.47	8.81
9.00	40.34	787.31	776.71	767.87	8.43	9.25	8.77
10.00	40.13	827.22	816.84	808.33	8.20	8.90	8.27
11.00	40.19	865.84	857.03	849.39	7.43	8.27	7.63
12.00	46.09	911.52	903.12	895.20	6.81	7.38	6.69
13.00	49.66	961.39	952.78	944.98	6.08	6.77	5.96
14.00	43.13	1002.59	995.90	988.97	5.96	6.64	5.86
15.00	40.58	1042.71	1036.48	1029.46	5.00	5.68	5.03
16.00	37.19	1080.96	1073.67	1066.10	4.67	5.25	4.60



V TUNE	HARMONICS (dBc)			FREQ. PUSHING (MHz/V)
	F2	F3	F4	
1.00	-25.42	-38.30	-43.11	0.17
2.00	-27.14	-37.65	-44.04	0.05
3.00	-26.57	-37.38	-46.32	0.14
4.00	-25.87	-38.77	-42.35	0.29
5.00	-26.49	-42.71	-40.87	0.67
6.00	-33.79	-39.65	-44.79	0.83
7.00	-39.71	-39.86	-46.69	0.91
8.00	-32.97	-41.14	-49.83	1.00
9.00	-30.38	-41.74	-51.82	1.08
10.00	-29.44	-40.43	-52.47	1.06
11.00	-29.06	-39.80	-49.26	0.88
12.00	-29.35	-42.42	-43.52	1.00
13.00	-27.72	-43.02	-41.58	1.02
14.00	-26.78	-41.02	-43.47	1.03
15.00	-26.13	-40.64	-42.95	1.15
16.00	-25.89	-39.76	-43.10	1.34

