

Plug-In

Voltage Controlled Oscillator

POS-150+

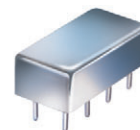
Linear Tuning 75 to 150 MHz

Features

- low load pulling, 0.8 MHz typ.
- excellent harmonic suppression, -23 dBc typ.
- hermetically sealed

Applications

- test instruments
- signal generators



CASE STYLE: A06
PRICE: \$11.95 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 dB (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.
75	150	+9.5	1	16	-80	-103	-127	-147	0.8	0.3	5.8-6.7	-23	-17	0.1	12	20

Pin Connections

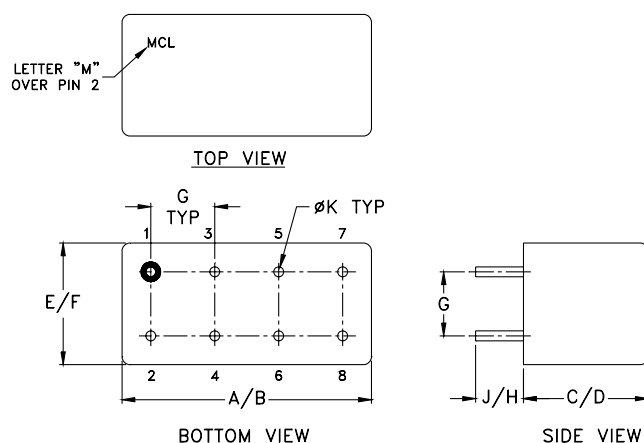
RF OUT	2
VCC	1
V-TUNE	8
GROUND	3,4,5,6,7
CASE GROUND	3,4,5,6,7

Maximum Ratings

Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	+16V
Absolute Max. Tuning Voltage (Vtune)	+18V

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

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ISO 9001 ISO 14001 AS 9100 CERTIFIED

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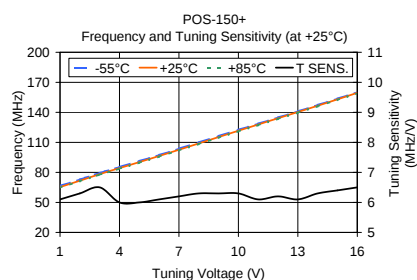
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For detailed performance specs
& shopping online see web site

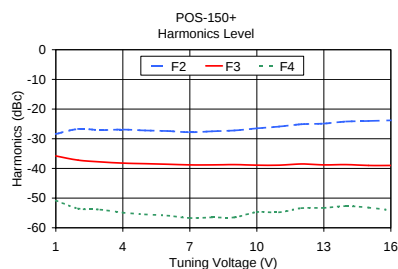
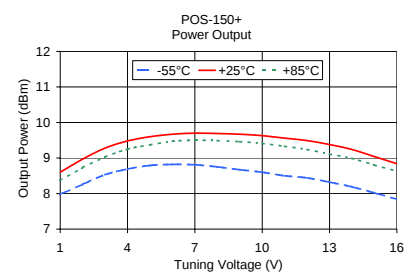
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Performance Data & Curves

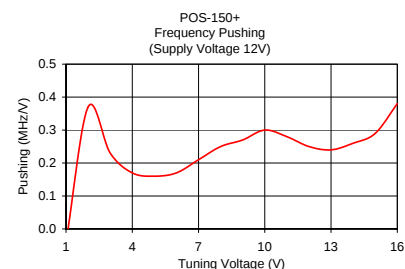
POS-150+



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	6.10	66.63	65.35	64.63	7.98	8.60	8.37
2.00	6.30	72.93	71.66	71.18	8.26	8.97	8.73
3.00	6.50	79.40	78.21	77.65	8.53	9.28	9.03
4.00	6.00	85.40	84.28	83.65	8.69	9.48	9.25
5.00	6.00	91.36	90.28	89.62	8.79	9.60	9.37
6.00	6.10	97.45	96.38	95.70	8.82	9.67	9.47
7.00	6.20	103.66	102.60	101.92	8.81	9.70	9.50
8.00	6.30	110.00	108.93	108.25	8.75	9.69	9.49
9.00	6.30	116.31	115.30	114.62	8.67	9.67	9.46
10.00	6.30	122.58	121.62	120.93	8.60	9.63	9.41
11.00	6.10	128.71	127.81	127.16	8.50	9.56	9.33
12.00	6.20	134.91	134.06	133.41	8.44	9.49	9.24
13.00	6.10	141.03	140.28	139.66	8.32	9.38	9.11
14.00	6.30	147.35	146.58	146.00	8.19	9.24	8.99
15.00	6.40	153.73	153.01	152.43	8.02	9.04	8.80
16.00	6.50	160.21	159.51	158.95	7.84	8.84	8.63



V TUNE	HARMONICS (dBc)			FREQ. PUSHING (MHz/V)
	F2	F3	F4	
1.00	-28.40	-35.80	-50.80	-0.04
2.00	-26.70	-37.20	-53.50	0.37
3.00	-27.10	-37.80	-53.90	0.23
4.00	-26.90	-38.20	-54.90	0.17
5.00	-27.20	-38.40	-55.50	0.16
6.00	-27.40	-38.60	-55.90	0.17
7.00	-27.80	-38.80	-56.70	0.21
8.00	-27.50	-38.80	-56.50	0.25
9.00	-27.20	-38.70	-56.50	0.27
10.00	-26.50	-38.90	-54.70	0.30
11.00	-25.90	-38.90	-54.80	0.28
12.00	-25.10	-38.50	-53.40	0.25
13.00	-24.90	-38.80	-53.30	0.24
14.00	-24.20	-38.70	-52.70	0.26
15.00	-24.00	-39.00	-53.20	0.29
16.00	-23.80	-39.00	-54.10	0.38



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