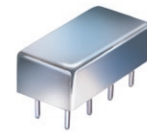


Plug-In

Voltage Controlled Oscillator

POS-100+

Linear Tuning 50 to 100 MHz



Features

- excellent harmonic suppression, -23 dBc typ.
- 3 dB modulation bandwidth, 0.1 MHz typ.
- hermetically sealed

Applications

- test instruments
- agile communications systems

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)				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.		Min.	Max.	SSB at offset frequencies: Typ.							Typ.	Typ.		Typ.	Max.
		Typ.			1 kHz	10 kHz	100 kHz	1 MHz			Typ.			Typ.		
50	100	+8.3	1	16	-83	-107	-130	-150	0.6	0.2	4.2-4.8	-23	-18	0.1	12	20

Pin Connections

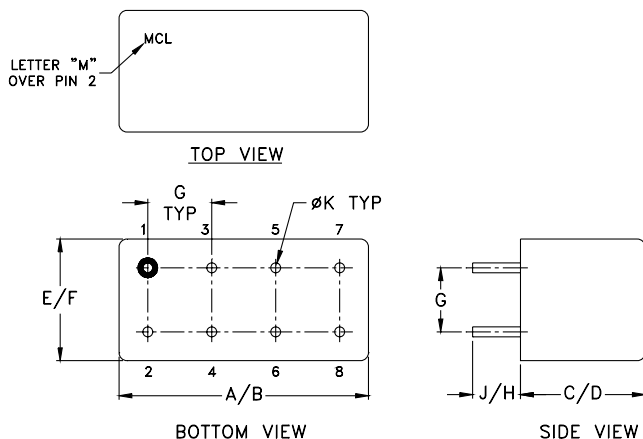
RF OUT	2
VCC	1
V-TUNE	8
GROUND	3,4,5,6,7
CASE GROUND	3,4,5,6,7

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



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



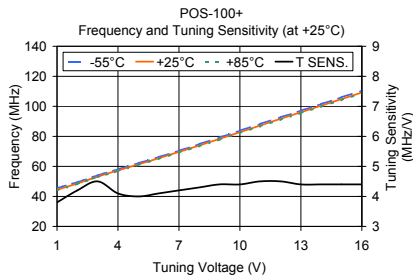
The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

IF/RF MICROWAVE COMPONENTS

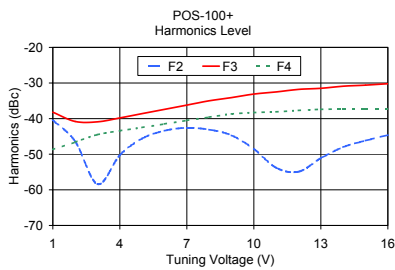
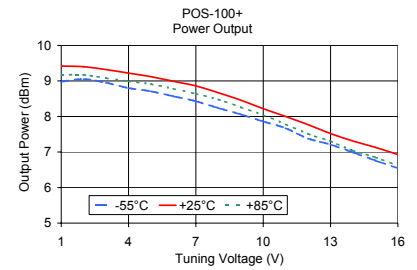
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Page 1 of 2

Performance Data & Curves

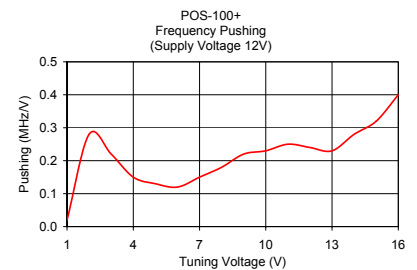
POS-100+



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	3.80	45.55	44.40	43.93	8.98	9.42	9.17
2.00	4.20	49.41	48.60	48.31	9.05	9.40	9.17
3.00	4.50	53.98	53.15	52.83	8.95	9.32	9.08
4.00	4.10	58.08	57.27	56.90	8.80	9.22	8.99
5.00	4.00	62.10	61.31	60.88	8.71	9.12	8.91
6.00	4.10	66.20	65.43	64.96	8.57	8.99	8.78
7.00	4.20	70.43	69.62	69.13	8.43	8.86	8.64
8.00	4.30	74.80	73.93	73.43	8.24	8.67	8.48
9.00	4.40	79.26	78.33	77.81	8.06	8.46	8.26
10.00	4.40	83.78	82.77	82.25	7.86	8.22	8.04
11.00	4.50	88.26	87.23	86.68	7.67	8.00	7.78
12.00	4.50	92.73	91.69	91.10	7.38	7.77	7.51
13.00	4.40	97.13	96.06	95.46	7.21	7.52	7.30
14.00	4.40	101.53	100.45	99.81	6.99	7.31	7.04
15.00	4.40	105.98	104.84	104.18	6.76	7.13	6.85
16.00	4.40	110.43	109.22	108.55	6.54	6.93	6.61



V TUNE	HARMONICS (dBc)			FREQ. PUSHING (MHz/V)
	F2	F3	F4	
1.00	-40.40	-38.20	-48.70	0.02
2.00	-46.40	-40.80	-46.60	0.28
3.00	-58.40	-40.90	-44.50	0.22
4.00	-50.30	-39.80	-43.40	0.15
5.00	-45.60	-38.60	-42.50	0.13
6.00	-43.40	-37.40	-41.50	0.12
7.00	-42.60	-36.20	-40.50	0.15
8.00	-43.10	-35.00	-39.60	0.18
9.00	-44.70	-34.10	-38.70	0.22
10.00	-48.50	-33.10	-38.30	0.23
11.00	-53.80	-32.50	-38.10	0.25
12.00	-54.90	-31.80	-37.70	0.24
13.00	-51.10	-31.50	-37.40	0.23
14.00	-48.00	-30.90	-37.30	0.28
15.00	-46.20	-30.60	-37.30	0.32
16.00	-44.60	-30.20	-37.30	0.40



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