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)		SSB at offset frequencies:			PULLING pk-pk @ 12 dBr		TUNING SENSITIVITY (MHz/V)		ONICS Bc)	3 dB MODULATION BANDWIDTH	_	C ATING VER	
					1	10	/p. 100	1	(MHz)					(MHz)	Vcc	Current (mA)
Min.	Max.	Тур.	Min.	Max.	kHz	kHz	kHz	MHz	Тур.	Тур.	Тур.	Тур.	Max.	Тур.	(volts)	Max.
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

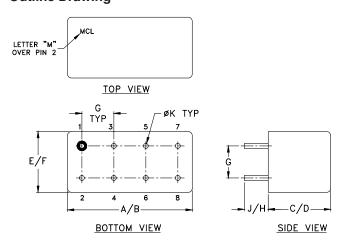
Maximum Ratings

Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vo	c) +16V
Absolute Max. Tuning Voltage (Vtu	ıne) +18V

all specifications: 50 ohm system

Permanent damage may occur if any of these limits are exceeded.

Outline Drawing

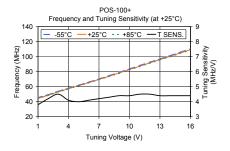


Outline Dimensions (inch)

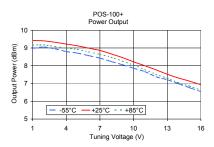
wt	K	J	Н	G	F	E	D	С	В	Α
grams	.031	.14	.20	.200	.400	.370	.310	.285	.800	.770
5.2	0.7874	3 556	5.08	5.08	10.16	9.398	7 874	7 239	20.32	19.558

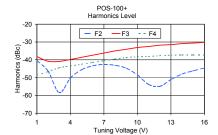






V	TUNING SENS.	FREC	QUENCY	(MHz)	POWER OUTPUT (dBm)			
TUNE	(<u>MHz/V</u>)	-55°C	+25°C	+85°C	-55°C	+25°C	+85°C	
1.00	3.80	45.55	44.40	43.93	8.98	9.42	9.17	
2.00	4.20	49.41	48.60	48.31	9.05	9.40	9.17	
3.00	4.50	53.98	53.15	52.83	8.95	9.32	9.08	
4.00	4.10	58.08	57.27	56.90	8.80	9.22	8.99	
5.00	4.00	62.10	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	HAI	FREQ. PUSHIN		
TUNE	F2	F3	F4	(MHz/V)
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

