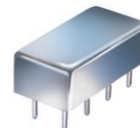


Plug-In Voltage Controlled Oscillator

POS-75+ POS-75

Linear Tuning 37.5 to 75 MHz



Features

- low load pull, 0.15 MHz typ.
- output suitable for LO drive to mixers
- hermetically sealed

Applications

- receivers/transmitters
- 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 identifies 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.
37.5	75	+8.0	1	16	-87	-110	-130	-150	0.15	0.11	3.1-3.8	-27	-16	0.1	12	20

Pin Connections

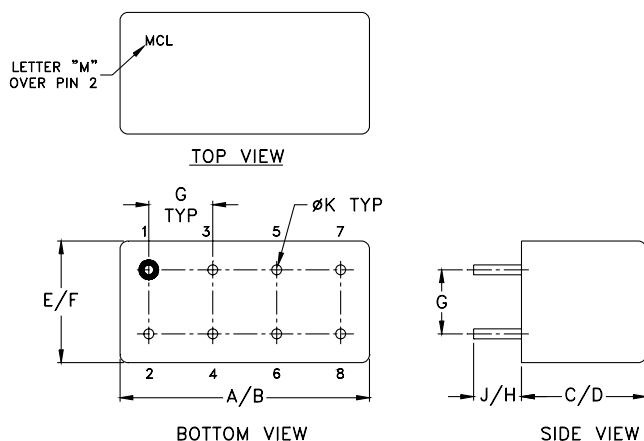
RF OUT	2
VCC	1
V-TUNE	8
GROUND	3,4,5,6,7
CASE GROUND	3,4,5,6,7

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

Mini-Circuits®
ISO 9001 ISO 14001 AS 9100 CERTIFIED

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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

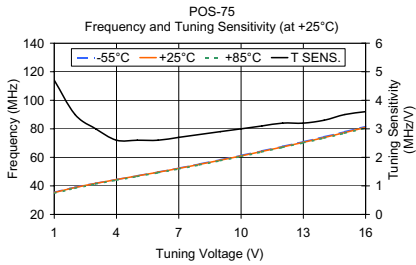
Design Engine The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

IF/RF MICROWAVE COMPONENTS

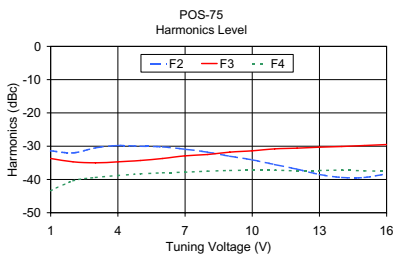
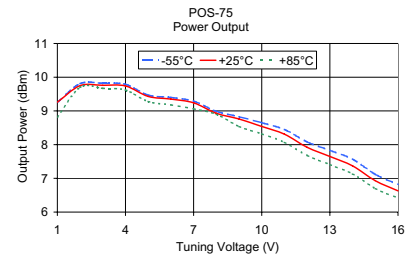
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Performance Data & Curves

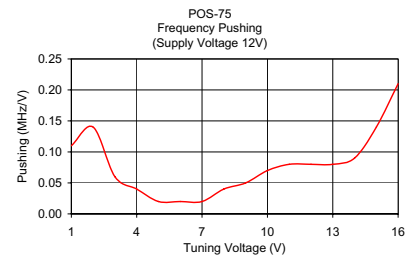
POS-75+ POS-75



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	4.70	35.61	35.31	34.79	9.25	9.26	8.81
2.00	3.50	39.02	38.81	38.32	9.81	9.75	9.70
3.00	3.00	41.88	41.78	41.34	9.82	9.76	9.67
4.00	2.60	44.50	44.42	44.02	9.79	9.74	9.62
5.00	2.60	47.08	46.98	46.59	9.47	9.43	9.28
6.00	2.60	49.71	49.58	49.20	9.40	9.35	9.18
7.00	2.70	52.45	52.27	51.89	9.29	9.24	9.06
8.00	2.80	55.32	55.08	54.70	8.99	8.93	8.90
9.00	2.90	58.30	58.00	57.63	8.83	8.76	8.54
10.00	3.00	61.35	61.02	60.66	8.65	8.54	8.32
11.00	3.10	64.47	64.12	63.77	8.45	8.31	8.07
12.00	3.20	67.68	67.28	66.94	8.08	7.92	7.68
13.00	3.20	70.98	70.52	70.18	7.83	7.65	7.41
14.00	3.30	74.40	73.86	73.51	7.57	7.37	7.13
15.00	3.50	77.95	77.34	76.95	7.12	6.93	6.70
16.00	3.60	81.65	80.98	80.55	6.82	6.63	6.42



V TUNE	HARMONICS (dBc)			FREQ. PUSHING (MHz/V)
	F2	F3	F4	
1.00	-31.40	-33.70	-43.40	0.11
2.00	-32.00	-34.70	-40.40	0.14
3.00	-30.50	-35.00	-39.40	0.06
4.00	-29.80	-34.70	-38.80	0.04
5.00	-30.00	-34.30	-38.30	0.02
6.00	-30.20	-33.70	-38.00	0.02
7.00	-30.90	-32.90	-37.80	0.02
8.00	-31.80	-32.50	-37.50	0.04
9.00	-33.00	-31.80	-37.30	0.05
10.00	-34.10	-31.40	-37.20	0.07
11.00	-35.50	-30.80	-37.20	0.08
12.00	-36.90	-30.60	-37.40	0.08
13.00	-38.50	-30.30	-37.30	0.08
14.00	-39.40	-30.10	-37.20	0.09
15.00	-39.40	-29.80	-37.40	0.14
16.00	-38.30	-29.50	-37.50	0.21



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