

ROS-205PV+



- low phase noise, -110 dBc/Hz at 10 kHz offset, typ.
- low sensitivity, 10-15 MHz/V typ.
- excellent harmonic suppression, -30 dBc typ.
- aqueous washable

CASE STYLE: CK605
PRICE: \$17.95 ea. QTY (5-49)

- IF down conversion
- VHF
- PLL circuitry

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

FREQUENCY (MHz)		POWER OUTPUT (dBm)	TUNING VOLTAGE (V)		PHASE NOISE (dBc/Hz)				PULLING pk-pk @ 12 dBr (MHz)	PUSHING (MHz/V)	TUNING SENSITIVITY (MHz/V)	HARMONICS (dBc)		3 dB MODULATION BANDWIDTH (MHz)	DC OPERATING POWER	
					SSB at offset frequencies: Typ.										Voltage (V)	Current (mA)
Min.	Max.	Typ.	Min.	Max.	1 kHz	10 kHz	100 kHz	1 MHz	Typ.	Typ.	Typ.	Typ.	Max.	Typ.	Voltage (V)	Current (mA)
180	210	2	0.5	5.0	-88	-110	-131	-151	0.4	0.4	10-15	-30	-20	2.0	5	15

RF OUT	10
VCC	14
V-TUNE	2
GROUND	1 3 4 5 6 7 8 9 11 12 13 15 16

Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	+6V
Absolute Max. Tuning Voltage (Vtune)	+6V

all specifications: 50 ohm system
Permanent damage may occur if any of these limits are exceeded.

PCB Land Pattern

Suggested Layout,
Tolerance to be within ± 0.002

- NOTES: 1. TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS .030" $\pm$.002"; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

 DENOTES PCB COPPER LAYOUT WITH SMOBC
 (SOLDER MASK OVER BARE COPPER)
 DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	wt.
.500	.500	.180	.100	.080	.115	.060	.040	.540	.060	.100	.135	.135	.115	.140	.070	.150	.070	grams
12.70	12.70	4.57	2.54	2.03	2.92	1.52	1.02	13.72	1.52	2.54	3.43	3.43	2.92	3.56	1.78	3.81	1.78	1.0

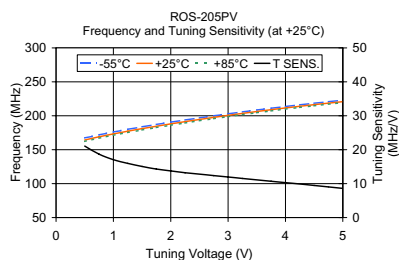
Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuits' applicable established test procedures and standard test conditions. 3. The parts governed by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCISStore/terms.jsp.

For detailed performance specs
& shopping online see web site

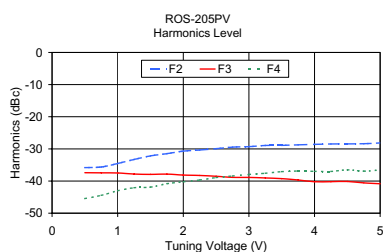
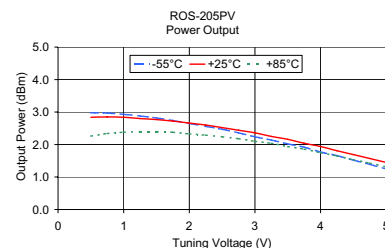
REV. D
M137599
ED-8382/2
ROS-205PV+
MM/TD/CP/AM
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Performance Data & Curves

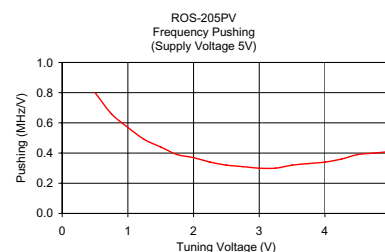
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V TUNE	TUNING SENS. (MHz/V)	FREQUENCY (MHz)			POWER OUTPUT (dBm)		
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C
0.50	21.07	167.42	164.34	162.20	2.98	2.84	2.26
0.75	18.68	171.96	169.01	166.95	2.97	2.85	2.34
1.00	17.05	176.12	173.27	171.26	2.93	2.84	2.38
1.25	15.96	180.03	177.26	175.28	2.88	2.80	2.40
1.50	15.07	183.71	181.03	179.07	2.82	2.77	2.40
1.75	14.31	187.22	184.61	182.67	2.74	2.72	2.38
2.00	13.75	190.59	188.04	186.13	2.65	2.66	2.33
2.25	13.21	193.82	191.34	189.45	2.56	2.60	2.29
2.50	12.80	196.95	194.54	192.67	2.47	2.52	2.24
2.75	12.36	199.98	197.63	195.79	2.36	2.44	2.18
3.00	11.95	202.91	200.62	198.80	2.24	2.36	2.10
3.25	11.53	205.75	203.50	201.72	2.14	2.25	2.04
3.50	11.11	208.50	206.28	204.53	2.02	2.16	1.94
3.75	10.69	211.15	208.95	207.24	1.92	2.04	1.86
4.00	10.29	213.71	211.53	209.85	1.77	1.94	1.75
4.25	9.89	216.17	214.00	212.35	1.66	1.81	1.65
4.50	9.46	218.54	216.36	214.75	1.52	1.69	1.53
4.75	9.04	220.79	218.62	217.03	1.39	1.57	1.43
5.00	8.60	222.95	220.77	219.20	1.25	1.45	1.31



V TUNE	HARMONICS (dBc)			FREQ. PUSHING (MHz/V)
	F2	F3	F4	
0.50	-35.81	-37.41	-45.45	0.80
0.75	-35.63	-37.45	-44.44	0.66
1.00	-34.53	-37.49	-43.03	0.57
1.25	-33.27	-37.83	-42.08	0.49
1.50	-32.17	-37.94	-41.89	0.44
1.75	-31.47	-37.85	-40.81	0.39
2.00	-30.68	-38.13	-40.26	0.37
2.25	-30.34	-38.26	-39.66	0.34
2.50	-29.93	-38.51	-38.91	0.32
2.75	-29.45	-38.86	-38.44	0.31
3.00	-29.30	-38.88	-37.95	0.30
3.25	-28.92	-39.05	-37.57	0.30
3.50	-28.89	-39.26	-37.06	0.32
3.75	-28.74	-39.67	-36.89	0.33
4.00	-28.59	-40.22	-36.96	0.34
4.25	-28.45	-40.19	-37.00	0.36
4.50	-28.44	-40.12	-36.50	0.39
4.75	-28.38	-40.58	-36.93	0.40
5.00	-28.12	-40.84	-36.52	0.41



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine [minicircuits.com](http://www.minicircuits.com) Provides ACTUAL Data Instantly at minicircuits.com

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