## **LINEAR TUNING** 12.5 to 3000 MHz





J	TOS	

ROS
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see suggested PCB layouts: PL-005 for JTOS models

PL-012 for ROS models

	FREQ. (MHz)	POWER OUTPUT (dBm)	TUNE VOLTAGE (V)	PHASE N (dBc/Hz) offset frequ	SSB@	PULLING (MHz) pk-pk	PUSHING (MHz/V)	TUNING SENSITIVITY (MHz/V)		ONICS (Bc)	3 dBMOD. BANDWIDTH (kHz)	POV SUPI		CASE STYLE	CONNECT	PRICE \$
MODEL◆ NO.	Min. Max.	Тур.	Min. Max.	Typ 1 10		@12 dBr	Тур.	Typ.	Тур.	Max.	Typ.	Voltage (V) Nom.	Current (mA) Max.	Note B	ČT I O N	Qty. (5-49)
JTOS-25 JTOS-50 JTOS-75 JTOS-100 JTOS-150	12.5 - 25 25 - 47 37.5 - 75 50 - 100 75 - 150	+8.0 +8.5 +8.0 +8.3 +9.5	1 11 1 15 1 16 1 16 1 16	-89 -110 - -83 -108 -	·127 -147 ·130 -140	0.03 0.06 0.15 0.6 0.8	0.02 0.04 0.11 0.2 0.3	1.0-4.0 2.0-2.6 2.8-4.0 3.7-4.8 5.8- 6.7	-26 -19 -27 -35 -23	-13 -12 -20 -20 -17	130 50 125 100 112	12 12 12 12 12	20 20 20 18 20	BK377 BK377 BK377 BK377 BK377	jc jc jc jc	18.95 13.95 13.95 13.95 13.95
JTOS-200 JTOS-300 JTOS-400 JTOS-535 JTOS-765	100 - 200 150 - 280 200 - 380 300 - 525 485 - 765	+10.0 +9.0 +9.0 +9.5 +8.0	1 16 1 16 1 16 1 16 1 16	-82 -102 - -82 -102 - -75 -97 -		1.0 1.0 1.4 2.0 2.0	0.2 0.2 0.4 0.5 0.5	6-10 9-14 10.5-17.1 10-24 20-30	-25 -28 -25 -28 -30	-20 -20 -20 -20 -20	110 120 130 115 100	12 12 12 12 12	20 20 20 20 20 20	BK377 BK377 BK377 BK377 BK377	jc jc jc jc jc	13.95 15.95 15.95 15.95 16.95
JTOS-1025 JTOS-1300 JTOS-1550 JTOS-1650 JTOS-1750	685 - 1025 900 - 1300 1150-1550 1200-1650 1350-1750	+8.6 +7.0 +7.0 +7.0 +7.0	1 16 1 20 0.5 20 1 13 0.5 20	-70 -95 - -73 -101 - -70 -95 -	114 -134 115 -135 121 -141 115 -135 121 -141	5.0 12 14 15 7	0.6 1.0 0.7 1.5 0.5	21-36 25-45 22-32 50-90 26-35	-28 -28 -20 -20 -16	-20 -17 -10 -14 -10	100 1000 2700 1000 2700	12 12 12 12 12	22 30 30 30 30	BK377 BK377 BK377 BK377 BK377	jc jc jc jc jc	18.95 18.95 19.95 19.95 19.95
JTOS-1910 JTOS-1950 <b>NEW</b> JTOS-2700V JTOS-3000	1625-1910 1550-1950 2050-2700 2300-3000	+7 +7 +8.0 +10.0	1 12 0.5 20 0.5 18 0.5 12	-75 -103 - -72 -94 -	·117 -137 ·125 -144 ·114 -134 ·110 -130	10 7 5.0 50	1.0 0.6 1.0 5.0	30–60 23–32 46-56 50–150	-20 -14 -25 -22	-15 -10 -10 -12	2500 8000 8000 20000	12 12 5 5	20 30 20 25	BK377 BK377 BK377 BK377	jc jc jc jc	19.95 19.95 21.95 20.95
ROS-100 ROS-150 ROS-200 ROS-300 ROS-400	50-100 75-150 100-200 150-280 200-380	+8.3 +9.5 +10.0 +9.0 +9.5	0.5 17 1 18 1 17 1 16 0.5 17	-80 -103 - -80 -105 - -80 -102 -	125 -145 127 -144 125 -145 122 -142 120 -140	0.6 0.8 0.6 0.5 0.2	0.3 0.3 0.3 0.3 0.3	3.0-5.0 4.0-6.8 6-11 7-17 9-22	-30 -23 -30 -28 -24	-20 -16 -20 -18 -18	100 100 100 100 100	12 12 12 12 12	20 20 20 20 20	CK605 CK605 CK605 CK605 CK605	kg kg kg kg	12.95 12.95 12.95 14.95 14.95
ROS-535 ROS-765 NEW ROS-1000V NEW ROS-1100V NEW ROS-1121V	300-525 485-765 900-1000 1000-1100 1060-1121	+6.0 +6.0 0 0 2.5	1 17 1 16 0.5 12 0.5 12 1 11	-74 -95 - -74 -102 - -80 -103 -	118 -138 115 -135 122 -140 123 -142 131 -149	0.5 2 1.0 1.5 0.7	0.4 0.5 0.4 1.5 0.7	9–27 10–40 12-16 12-16 8-13	-20 -27 -30 -26 -11	-15 -14 -20 -20	100 100 8000 8000 10000	12 12 5 5 5	20 22 25 25 30	CK605 CK605 CK605 CK605 CK605	kg kg kg kg	14.95 15.95 15.95 15.95 15.95
ROS-1410 NEW ROS-1500 ROS-1720 NEW ROS-1900 NEW ROS-1900V	850-1410 1000-1500 1550-1720 1450-1900 1450-1900	+7.0 +8.0 +7.0 +7.0 +8.0	0.5 11 0.5 20 0.5 12 0.5 20 0.5 20	-79 -104 - -73 101 - -80 -106 -	119 -138 124 -144 121 -141 126 -146 124 -144	15 10 11 7 7	1.0 1.2 1.3 0.7 0.7	50-80 25-40 28-34 22-34 22-34	-8 -13 -17 -15 -18	 -10 -7 -10	1000 100000 18000 100000 100000	12 10 12 10 5	25 26 25 25 28	CK605 CK605 CK605 CK605 CK605	kg kg kg kg	19.95 16.95 19.95 17.95 17.95
NEW ROS-2650 NEW ROS-3000V	2165-2650 2400-3000	+5.0 +9.0	0.5 19 0.5 22		121 -141	5 30	1.0 1.5	27-36 20-60	-12 -18	_	6000 20000	12 5	25 40	CK605 CK605	kg kg	18.95 24.95

#### NOTES:

- Aqueous washable
- Environmental specifications and re-flow soldering information available in General Information Section.
  Units are non-hermetic unless otherwise noted. For details on case
- dimensions & finishes see "Case Styles & Outline Drawings".
- Prices and Specifications subject to change without notice. Operating Temperature: -55°C to +85°C
- Absolute Maximum Supply Voltage (V<sub>cc</sub>) & Tuning Voltage (V<sub>tune</sub>):

Model	(V <sub>CC</sub> )	(V <sub>tune</sub> )	Model	$(V_{cc})$	(V <sub>tune</sub> )	Model	(V <sub>CC</sub> )	(V <sub>tune</sub> )
JTOS-25	+15V	+12V	JTOS-1950	+13V	+22V	ROS-1700W	+15V	+30V
JTOS-50	+16V	+17V	JTOS-2000	+10V	+25V	ROS-1720	+13V	+14V
JTOS-75 thru JTOS-765	+16V	+18V	JTOS-2700V	+6V	+20V	ROS-1900	+11V	+22V
JTOS-850VW	+6V	+20V	JTOS-3000	+7V	+15V	ROS-1900V	+6V	+22V
JTOS-1000W	+15V	+25V	ROS-100 thru ROS-765	+13V	+18V	ROS-2000	+13V	+22V
JTOS-1025	+16V	+18V	ROS-1000V	+6V	+15V	ROS-2150VW	+6V	+28V
JTOS-1300	+15V	+22V	ROS-1100V	+6V	+15V	ROS-2160W	+12V	+22V
JTOS-1550	+13V	+22V	ROS-1121V	+6V	+12V	ROS-2500	+15V	+16V
JTOS-1650	+15V	+15V	ROS-1200W	+15V	+25V	ROS-2650	+13V	+20V
JTOS-1750	+13V	+22V	ROS-1410	+13V	+13V	ROS-3000V	+6V	+22V
ITOS 1010	.15\/	. 15\/	DOS 1500	. 11\/	. 221/			

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# WIDE BAND 400 to 2500 MHz





JTO:

ROS

	MODEL <b>♦</b> NO.	FREQ. (MHz) Min. Max.	POWER OUTPUT (dBm)	TUNE VOLTA (V) Min. M	.GE	(d	Bc/H et frec	NOISE z) SSB@ quencies: p. 100 1 kHz MHz	PULLING (MHz) pk-pk @12 dBr	PUSHING (MHz/V)	TUNING SENSITIVITY (MHz/V)			3 dB MOD. BANDWIDTH (kHz)			CASE STYLE	ZO07	PRICE \$ Qty. (5-49)
	JTOS-850VW JTOS-1000W JTOS-2000	400-850 500-1000 1370-2000	+6.0 +7.0 +12.0	1.0	18 18 22	-74 -73 -70	-94	-116 -136 -114 -134 -115 -135	6.0 5.0 40	1.5 1.0 1.5	15-80 30-40 30-50	-20 -26 -11	 -20 -8	185 100 1000	5 12 8	20 25 30	BK377 BK377 BK377	jc jc jc	18.95 21.95 19.95
NEW	ROS-1200W ROS-1700W ROS-2000	612-1200 770-1700 1350-2000	+10.0 +8.0 +7.0	1.0	18 24 20	-71 -73 -75			9.0 9.0 9	0.45 0.4 1.3	26-68 26-60 30-50	-18 -25 -11	-10 -13 —	20000 11000 2000	12 12 12	40 40 25	CK605 CK605 CK605	kg kg kg	24.95 24.95 21.95
NEW	ROS-2150VW ROS-2160W ROS-2500	970-2150 1160-2160 1600-2500	+4.0 +5.0 +6.5	0.5	25 20 14	-70 -70 -66	-97	-118 -138 -117 -137 -113 -133	7.0 10.0 18	2.5 1.5 5.0	30-70 30-80 30-180	-15 -11 -14	_ _ -8	6000 12000 6000	5 10 12	25 30 25	CK605 CK605 CK605	kg kg kg	29.95 24.95 21.95

### features

- Linear tuning
- Low phase noise
- Excellent harmonic suppression
- Output suitable for LO drive to mixers
- Low power consumption, typically 190 mW (most models)
- 12-V parts are usable with +15V supply for higher power output, typically 2 dB

### applications

- digital cordless phones
- cellular up-and-down converters
- catv distribution set top converters
- wideband frequency synthesizers
- test instruments
- signal generators
- agile communications systems

#### pin connections see case style outline drawings

		.,	-
PORT	jc	kg	
RF OUT	13	10	
V-CC	2	14	
V-TUNE	5	2	
GND EXT	1,3,4,6,7,8,9,	1,3,4,5,6,7,8,9	
	10,11,12,14	11,12,13,15,16	
DEMO BOARD	TB-04	TB-10	

## designers kits available

		9	
KIT No.	No. of Units in KIT	Description	Price \$ per KIT
K-JTOS1 K-JTOS2 K-JTOS3	10 7 6	1 ot each: JTOS-50, 75, 100, 150, 200, 300, 400, 535, 765, 1025 1 of each: JTOS-50, 100, 200, 400, 535, 765, 1025 2 of each: JTOS-1300, 1650, 1910	149.95 99.95 114.95

NSN GUIDE

MCL NO. NSN

JTOS-200 5955-01-483-0505 JTOS-2000 5955-01-478-7347

