

VOLTAGE CONTROLLED OSCILLATORS

Surface Mount □

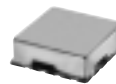
5V TUNING FOR PLL IC's 24 to 2600 MHz



JTOS



MOS



ROS

MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE (dBc/Hz) SSB@ offset frequencies: Typ.				PULLING (MHz) pk-pk @12 dB	PUSHING (MHz/V)	TUNING SENSITIVITY (MHz/V)	HARMONICS (dBc)		3 dB MOD. BANDWIDTH (kHz)	POWER SUPPLY		CASE STYLE	C ON N E C T I O N	PRICE \$
	Min.	Max.		1 kHz	10 kHz	100 kHz	1 MHz				Typ.	Max.		Voltage (V) Nom.	Current (mA) Max.			
JTOS-50P	24-29		+9.5	-88	-108	-127	-147	0.06	0.04	2-2.5	-14	-12	50	12	20	BK377	jc	14.95
JTOS-75P	35-43		+9	-89	-110	-130	-140	0.15	0.11	2.5-4	-25	-20	125	12	20	BK377	jc	14.95
JTOS-100P	48-59		+9	-83	-108	-128	-140	0.6	0.2	3.5-4	-30	-20	100	12	18	BK377	jc	14.95
JTOS-150P	72-91		+9.5	-82	-106	-127	-147	0.8	0.3	6-9	-30	-17	112	12	20	BK377	jc	14.95
JTOS-200P	95-120		+8.8	-84	-105	-124	-145	1.0	0.2	7-10	-30	-20	110	12	20	BK377	jc	14.95
JTOS-300P	148-174		+10	-82	-102	-122	-142	1.0	0.2	10-14	-27	-20	120	12	20	BK377	jc	16.95
JTOS-400P	194-220		+11	-82	-102	-122	-142	1.4	0.4	13-18	-25	-20	130	12	20	BK377	jc	16.95
JTOS-535P	278-325		+9.5	-75	-97	-117	-137	2.0	0.5	17-22	-30	-20	115	12	20	BK377	jc	16.95
JTOS-765P	486-510		+9	-75	-98	-118	-138	2.0	0.5	20-30	-30	-20	100	12	20	BK377	jc	17.95
JTOS-1025P	680-755		+9	-70	-94	-114	-134	5.0	0.6	30-40	-27	-20	100	12	22	BK377	jc	19.95
JTOS-3000P	2300-2600		+11	-65	-92	-112	-132	50.0	5.0	120-160	-22	-12	20000	5	25	BK377	jc	21.95
NEW MOS-1826PV	1766-1826		+2	-75	-101	-122	-142	8.0	1.0	21-35	-28	-15	10000	5	25	CZ682	my	19.95
ROS-205PV	180-210		+2	-88	-110	-131	-151	0.4	0.4	10-15	-30	-20	2000	5	15	CK605	kg	17.95
ROS-285PV	245-285		+3	-80	-100	-120	-140	2.0	0.2	10-20	-20	-10	100	5	20	CK605	kg	17.95
ROS-550PV	450-550		+6	-81	-104	-124	-144	3.0	0.5	30-60	-15	—	8000	5	15	CK605	kg	19.95
ROS-660PV	640-660		0	-85	-107	-127	-147	0.8	0.6	10-14	-17	-12	2000	5	15	CK605	kg	19.95
ROS-675PV	655-675		0	-85	-107	-127	-145	1.0	0.5	10-14	-23	-10	5000	5	15	CK605	kg	19.95
ROS-725PV	710-725		0	-85	-105	-126	-145	0.9	0.3	8-13	-19	-12	2000	5	15	CK605	kg	19.95
ROS-740PV	720-740		0	-84	-106	-126	-145	1.0	0.8	10-14	-16	-10	5000	5	15	CK605	kg	19.95
ROS-900PV	810-900		+1	-80	-102	-122	-142	3.0	2.0	26-30	-25	-16	1000	4.5	12	CK605	kg	19.95
ROS-960PV	890-960		0	-80	-102	-122	-142	2.0	0.2	25-28	-27	-18	1000	5	12	CK605	kg	19.95
ROS-1000PV	900-1000		+6	-80	-104	-124	-144	2.0	0.7	27-38	-33	-20	1000	5	22	CK605	kg	19.95
ROS-1435PV	1375-1435		+3	-78	-101	-121	-141	4.0	1.7	20-30	-26	-18	5000	5	20	CK605	kg	19.95
ROS-1600PV	1520-1600		+7	-75	-100	-120	-140	10.0	3.0	25-38	-26	-16	1000	5	25	CK605	kg	18.95
ROS-1605PV	1500-1605		0	-74	-98	-118	-138	6.0	0.8	40-50	-17	-8	8000	3.3	16	CK605	kg	19.95

TUNING VOLTAGE TO COVER FREQUENCY RANGE 0.5V TO 5V

see suggested PCB layouts: **PL-005** for JTOS models
PL-023 for MOS models
PL-012 for ROS models

NOTES:

- ◆ Aqueous washable
- Non-hermetic
- A. General Quality Control Procedures, Environmental specifications, Hi-Rel, and MIL description are given in General Information (Section 0).
- B. Connector types and case mounted options, case finishes are given in section 0, see "Case Styles & Outline Drawings".
- C. Prices and Specifications subject to change without notice.
 1. Operating Temperature: -55°C to +85°C.
 2. Absolute Maximum Supply Voltage (V_{CC}) & Tuning Voltage (V_{tune}):

Model	(V_{CC})	(V_{tune})	Model	(V_{CC})	(V_{tune})
JTOS-50P thru JTOS-1025P	+16V	+7V	ROS-1605PV	+3.5V	+6V
MOS-1826PV	+6V	+6V	all other ROS-PV models	+6V	+6V
JTOS-3000P	+7V	+7V	POS-P models	+16V	+7V
ROS-285PV	+8V	+10V			

Plug-In

24 to 755 MHz



MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE (dBc/Hz) SSB@ offset frequencies: Typ.				PULLING (MHz) pk-pk @12 dBr	PUSHING (MHz/V)	TUNING SENSITIVITY (MHz/V)	HARMONICS (dBc)		3 dB MOD. BANDWIDTH (kHz)	POWER SUPPLY		CASE STYLE	C CONNECTION	PRICE \$
	Min.	Max.		1 kHz	10 kHz	100 kHz	1 MHz				Typ.	Max.		Voltage (V) Nom.	Current (mA) Max.			
POS-50P	24-29		+10	-92	-113	-134	-151	0.06	0.04	2-2.5	-18	-12	50	12	20	A06	hx	12.95
POS-75P	35-43		+9	-91	-113	-135	-151	0.15	0.11	2.5-4	-25	-20	100	12	20	A06	hx	12.95
POS-100P	48-59		+9	-92	-112	-134	-151	0.6	0.2	3.5-5	-30	-18	100	12	20	A06	hx	12.95
POS-150P	72-91		+10	-84	-104	-126	-147	0.8	0.3	6-9	-25	-17	100	12	20	A06	hx	12.95
POS-200P	95-120		+10	-77	-102	-123	-146	1.0	0.2	7-10	-30	-20	100	12	20	A06	hx	12.95
POS-300P	148-174		+10	-83	-105	-125	-145	1.8	0.3	10-14	-27	-20	100	12	20	A06	hx	14.95
POS-400P	194-220		+10.5	-82	-103	-124	-142	1.8	0.3	13-18	-25	-20	100	12	20	A06	hx	14.95
POS-535P	278-325		+10	-66	-95	-120	-138	2.0	0.4	17-22	-30	-20	100	12	20	A06	hx	14.95
POS-765P	486-510		+9.5	-70	-92	-116	-135	5.0	0.4	20-30	-26	-20	100	12	22	A06	hx	15.95
POS-1025P	680-755		+8.5	-74	-96	-116	-135	5.0	0.6	30-40	-24	-18	100	12	22	A06	hx	17.95

TUNING VOLTAGE TO COVER FREQUENCY RANGE 0.5V TO 5V

features

- wide frequency range
- linear tuning characteristics
- low phase noise
- 5V tuning voltage range

applications

- PLL circuitry
- measurement instrumentation
- satellite systems
- frequency synthesizers
- wireless microphones
- cellular

pin connections see case style outline drawings

PORT	hx	jc	kg	my
RF OUT	2	13	10	5
V-CC	1	2	14	3
V-TUNE	8	5	2	1
GND EXT	3,4,5,6,7	1,3,4,6,7,8,9 10,11,12,14	1,3,4,5,6,7,8,9 11,12,13,15,16	2,4,6,7,8
DEMO BOARD	—	TB-04	TB-10	TB-28



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