

# VOLTAGE CONTROLLED OSCILLATORS

## CERAMIC COAXIAL RESONATOR SURFACE-MOUNT PACKAGE



124S

FREQUENCY RANGE (MHz)	NOMINAL TUNING VOLTAGE (Volts)	DC BIAS REQUIREMENTS		OUTPUT POWER		AVERAGE TUNING SENSITIVITY MHz/Volt	TYPICAL PHASE NOISE dBc/Hz Offset at 10 KHz/100 KHz	TYPICAL HARMONIC SUPPRESSION (dBc)	PUSHING (MHz/Volt) (Typ)	PULLING (@ 1.75:1 VSWR) MHz (Typ)	MODEL
		VOLTAGE (Volts)	CURRENT (mA)	dBm	Tolerance (dB)						
617 - 627	1 - 5	+4.5	<40	0	$\pm 1.5$	2 - 4	-112/-132	10	1	15	CRO617SA
681 - 716	1 - 8	+8	<40	+11	$\pm 1.5$	5 - 7	-115/-135	10	1	5	CRO-S-698
700 - 730	1 - 8	+9	<26	0	$\pm 2.5$	3.5 - 5.5	-112/-132	10	1	15	CRO700SA
702 - 738	1 - 8	+8	<40	+11	$\pm 1.5$	5 - 7	-110/-130	10	1	5	CRO702SA
727 - 768	1 - 8	+9	<20	0	$\pm 2.5$	6 - 9	-108/-128	10	1	5	CRO-S-747
750 - 850	1 - 24	+12	<40	+10	$\pm 2.5$	4 - 6	-105/-130	10	5	15	CRO750SA
869 - 894	1.5 - 5	+12	<40	+6.5	$\pm 2.5$	7 - 10	-110/-130	10	1	5	CRO869SA
889 - 970	1 - 11	+12	<35	+5	$\pm 2$	8 - 30	-115/-135	10	1	15	CRO889SA
902 - 928	1 - 4	+5	<40	0	$\pm 2.5$	8 - 14	-105/-130	10	1	5	CRO-S-915
917 - 950	1.5 - 5	+12	<40	0	$\pm 2.5$	11 - 18	-105/-125	10	1	15	CRO917SA
923 - 962	1.5 - 6.5	+8	<25	+3	$\pm 3$	8 - 14	-100/-130	15	5	15	CRO923SA
935 - 960	1.5 - 5	+12	<40	0	$\pm 2.5$	8 - 14	-105/-130	10	1	15	CRO935SA
960 - 990	1 - 8	+5	<40	0	$\pm 2.5$	4 - 6	-105/-130	10	2	5	CRO-S-975
1020 - 1070	1 - 10	+8	<40	+4	$\pm 2.5$	5.5 - 8.0	-105/-125	10	2	5	CRO-S-A03
1020 - 1040	1 - 8	+12	<40	+8	$\pm 2.5$	4 - 6	-105/-132	10	1	15	CRO-S-1030
1030 - 1050	1 - 4	+12	<35	+12	$\pm 1.5$	7 - 10	-95/-130	10	1	15	CRO-S-1040
1055 - 1125	1 - 10	+12	<40	+10	$\pm 2$	7 - 10	-105/-130	10	1	15	CRO1055SA
1079 - 1114	1 - 8	+8	<40	+5	$\pm 3$	6 - 10	-115/-135	15	5	15	CRO1079SA
1160 - 1180	1 - 8	+12	<35	+7	$\pm 2$	7 - 9	-100/-130	15	2	5	CRO1170SA
1175 - 1245	1 - 10	+12	<40	+13	$\pm 2$	7 - 10	-115/-138	10	1	15	CRO1175SA
1315 - 1335	1 - 8	+5	<18	0	$\pm 2$	4 - 6	-100/-130	10	1	15	CRO-S-1325
1511 - 1586	1 - 9	+8	<40	+4	$\pm 2$	10 - 18	-106/-131	10	1	1	CRO-S-1548
1594 - 1669	1 - 8	+8	<25	+3	$\pm 3$	11 - 17	-105/-125	15	5	15	CRO1594SA
1600 - 1630	1 - 4	+6	<40	0	$\pm 2.5$	20 - 30	-100/-125	10	1	5	CRO-S-A05
1710 - 1770	2 - 10	+15	<40	+6	$\pm 3$	8 - 12	-105/-130	10	1	15	CRO1710SA
1778 - 1842	0.5 - 4.5	+12	<40	+2	$\pm 2.5$	18 - 25	-102/-128	10	1	5	CRO1778SA
1785 - 1842	2 - 10	+12	<40	+6	$\pm 3$	8 - 12	-105/-130	10	1	15	CRO-S-A06
1855 - 1910	2 - 10	+12	<40	+6	$\pm 3$	8 - 12	-105/-130	10	1	15	CRO1855SA
1890 - 1950	1 - 10	+8	<40	+10	$\pm 2.5$	7 - 14	-105/-125	10	1	5	CRO-S-1920

### COMMON SPECIFICATIONS

- Output Impedance: 50 ohms
- VSWR: 1.5:1 (Typ)

- Operating Temperature: -20°C to +70°C
- Contact the factory for more stringent operating temperature range

### PIN-OUT TABLE

RF OUT	Vcc	Vtune	CASE GND
1	4	16	ALL OTHERS