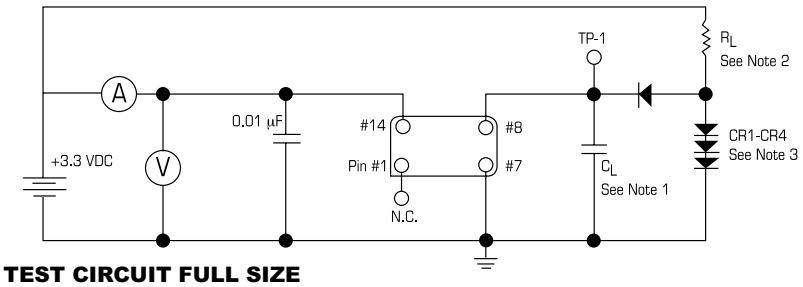
Cal Crystal Lab, Inc. / Comclok, Inc. 800-333-9825
1156 North Gilbert Street • Anaheim, CA 92801

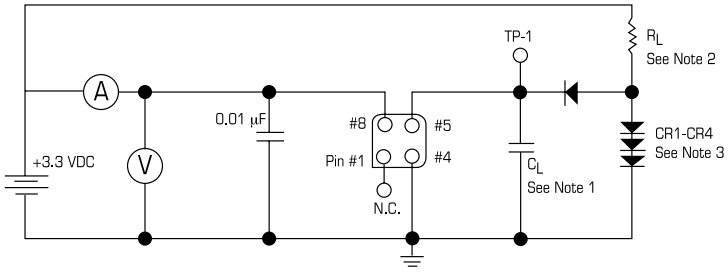
DUAL COMPATIBLE TTL / HCMOS OSCILLATORS (FULL & HALF SIZE)

MODEL CV
3.3 VDC

Model	CV	CV
Frequency Range	10kHz ~ 69.999MHz	70MHz ~ 160.0MHz
Frequency Stability	100ppm Standard, Optional Tolerances Available	100ppm Standard, Optional Tolerances Available
Operating Temperature Range	0°C ~+70°C Extended Temperature Ranges Available	0°C ~+70°C Extended Temperature Ranges Available
Storage Temperature Range	-55°C ~+125°C	-55°C ~+125°C
Current Consumption	10.0KHz ~ 23.999MHz: 15mA Max 24.000MHz ~ 69.999MHz: 30mA Max	70.0MHz ~ 99.999MHz: 30mA Max 100.00MHz ~ 129.9MHz: 35mA Max 130.00MHz ~ 160.00MHz: 40mA Max
Supply Voltage	+3.3 VDC ± 10%	+3.3 VDC ± 10%
Symmetry	60/40 @ 50% Vcc, Optional Tolerances Available	60/40 @ 50% Vcc, Optional Tolerances Available
Rise & Fall Time (Tr & Tf)	6 nSec Max	3 nSec Max
Logic "1"	3.0 VDC Min	3.0 VDC Min
Logic "0"	0.5 VDC Max	0.5 VDC Max
Output Load (Max)	10TTL / 20 pF	2TTL / 15pF
Aging	< 5ppm per year	< 5ppm per year



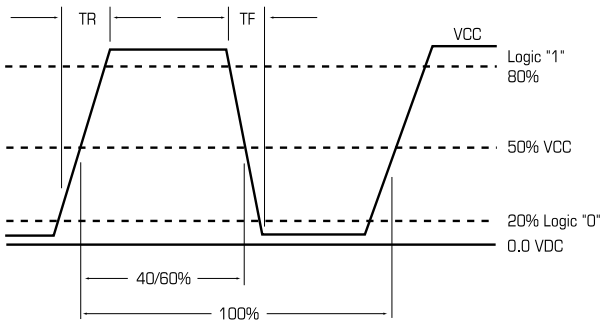
TEST CIRCUIT FULL SIZE



TEST CIRCUIT HALF SIZE

FULL SIZE TTL/HCMOS	
PINS	CONNECTIONS
1	N.C.
7	GND
8	OUTPUT
14	+3.3 VDC ±10%

HALF SIZE TTL/HCMOS	
PINS	CONNECTIONS
1	N.C.
4	GND
5	OUTPUT
8	+3.3 VDC ±10%



NOTE:

1. C_L Capacitance includes probe and test jig 20pF typical (10kHz ~ 69.999MHz)
   C_L Capacitance includes probe and test jig 15pF typical (70MHz ~ 160.000MHz)
2. R_L = 400Ω - 10TTL
   2kΩ - 10 LSTTL
3. All diodes are 1N941, 1N43064 or equivalent