



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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**CRYSTEK**  
CRYSTALS  
A DIVISION OF CRYSTEK CORPORATION

# POCKET REFERENCE OSCILLATOR

*New  
PRO Series*



Actual Size

Crystek's new **PRO** Series, **P**ocket **R**eference **O**scillator is an industry first! A complete HCMOS crystal clock oscillator has been integrated in a rugged SMA housing. Simply connect +3.3Vdc to the female SMA side, and it will output a clean Low Jitter signal from the male SMA side. In effect, each **PRO** is a fixed frequency portable crystal generator. Frequency stability is  $\pm 25$ ppm over 0°C to 70°C. Available off the shelf in many standard frequencies (see next page). Perfect for Lab use.



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**POCKET  
REFERENCE  
OSCILLATOR**

**New  
PRO Series**

**Temperature Range:** 0°C to +70°C  
**Operating Temp.** -40°C to 85°C  
**Storage:** -45°C to 90°C  
**Input Voltage:** +3.3V ± 0.3V

**Input Current:**  
**1.54~34.0MHz** 18 mA Max  
**35.0~50.0MHz** 25 mA Max  
**51.0~69.0MHz** 30 mA Max  
**70.0~156.25MHz** 45 mA Max

**Rise/Fall Time:**  
**1.54~10.0MHz** 5nsec Max @ 20% to 80% Vdd  
**10.1~30.0MHz** 4nsec Max @ 20% to 80% Vdd  
**30.1~50.0MHz** 3nsec Max @ 20% to 80% Vdd  
**50.1~80.1MHz** 2.5nsec Max @ 20% to 80% Vdd  
**80.1~156.25MHz** 2nsec Max @ 20% to 80% Vdd

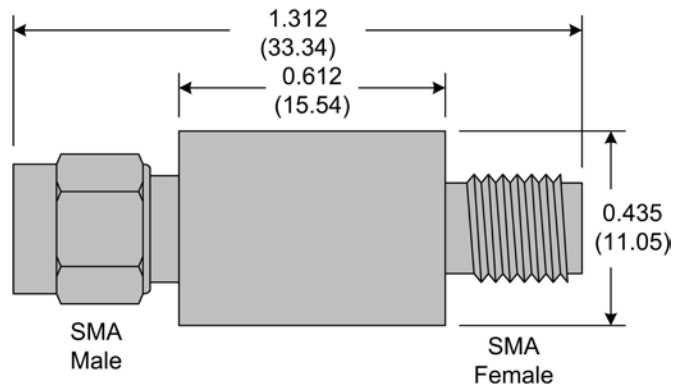
**Output:** HCMOS  
**Symmetry:** 45/55% Max @ 50% Vdd  
**Logic:** "0" = 10% Vdd Max  
"1" = 90% Vdd Min.

**Load:** 15pF Typical  
**Jitter:** 12KHz~80MHz 0.5psec Typ., 1psec RMS Max

Part Number	Description
CPRO33-4.000	4.000MHz, 3.3V ±25ppm Max(0/70°C)
CPRO33-5.000	5.000MHz, 3.3V ±25ppm Max(0/70°C)
CPRO33-8.000	8.000MHz, 3.3V ±25ppm Max(0/70°C)
CPRO33-10.000	10.000MHz, 3.3V ±25ppm Max(0/70°C)
CPRO33-12.000	12.000MHz, 3.3V ±25ppm Max(0/70°C)
CPRO33-16.000	16.000MHz, 3.3V ±25ppm Max(0/70°C)
CPRO33-16.384	16.384MHz, 3.3V ±25ppm Max(0/70°C)
CPRO33-20.000	20.000MHz, 3.3V ±25ppm Max(0/70°C)
CPRO33-25.000	25.000MHz, 3.3V ±25ppm Max(0/70°C)
CPRO33-32.768	32.768MHz, 3.3V ±25ppm Max(0/70°C)
CPRO33-44.736	44.736MHz, 3.3V ±25ppm Max(0/70°C)
CPRO33-45.000	45.000MHz, 3.3V ±25ppm Max(0/70°C)
CPRO33-50.000	50.000MHz, 3.3V ±25ppm Max(0/70°C)
CPRO33-62.500	62.500MHz, 3.3V ±25ppm Max(0/70°C)
CPRO33-77.760	77.760MHz, 3.3V ±25ppm Max(0/70°C)
CPRO33-80.000	80.000MHz, 3.3V ±25ppm Max(0/70°C)
CPRO33-100.000	100.000MHz, 3.3V ±25ppm Max(0/70°C)
CPRO33-106.250	106.250MHz, 3.3V ±25ppm Max(0/70°C)
CPRO33-125.000	125.000MHz, 3.3V ±25ppm Max(0/70°C)

Available Accessories:  
Power Supply Banana Plug  
SMA to BNC Power Cable  
Signal Injection Cable  
DC Power Supply

Visit our Website for additional Information  
[WWW.CRYSTEK.COM](http://WWW.CRYSTEK.COM)



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