



**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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**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

