

# CRYSTAL CLOCK OSCILLATORS



ACPEL



RoHS  
Compliant

20 X 12.6 X 7.2mm

## FEATURES:

- Low jitter PECL logic
- Tight overall frequency stability
- Fast rise and fall times
- Complementary output
- Wide frequency range.

## APPLICATIONS:

- Gigabit ethernet
- Data telecommunications and networking
- xDSL, Stratum IV
- SONET/SDH

## STANDARD SPECIFICATIONS:

PARAMETERS	
ABRACON P/N	ACPEL Series
Frequency	0.75 MHz - 800 MHz
Operating Temperature	0°C to +70°C (see options)
Storage Temperature	-55°C to +125°C
Frequency Stability	± 100 ppm max. (see options)
Supply Voltage (Vdd)	3.3Vdc ±5%
Supply Current	60 mA max. @100MHz
Symmetry	40/60% max.
Rise and Fall Times (Tr/ Tf)	1 ns max. @ 20~80%Vpp
Output Type	PECL square wave
Output Load	50Ω @Vcc -2Vdc
Aging	± 3.0ppm max./ year

## OPTIONS AND PART IDENTIFICATION:

ACPEL - Frequency - □ - □ - □ - □

Temperature Options	
I	0°C to +50°C
D	-10°C to +60°C
E	-20°C to +70°C
F	-30°C to +70°C
N	-30°C to +85°C
L	-40°C to +85°C

Freq. Stability	
J*	±20 ppm max.
R	±25 ppm max.
K	±30 ppm max.
H	±35 ppm max.
C	±50 ppm max.

\* Temp option I, D and E only

Lead Option	
G*	Gull Wing
Q30	0.30(7.62)
Q25	0.25(6.35)
Q20	0.20(5.08)
Q15	0.15(3.81)
Q10	0.10(2.54)

PIN1 Option	
Blank	N/C
QBAR	Complementary output

\* Solder composition Sn/Ag/Cu can only be used for G option.  
Must be capable for IR or Wave Reflow methods.

ABRACON IS  
ISO9001:2008  
CERTIFIED



**ABRACON**  
CORPORATION

Visit [www.abracon.com](http://www.abracon.com) for Terms & Conditions of Sale **Revised: 10.23.10**  
30332 Esperanza, Rancho Santa Margarita, California 92688  
tel 949-546-8000 | fax 949-546-8000 | [www.abracon.com](http://www.abracon.com)

# CRYSTAL CLOCK OSCILLATORS

ACPEL

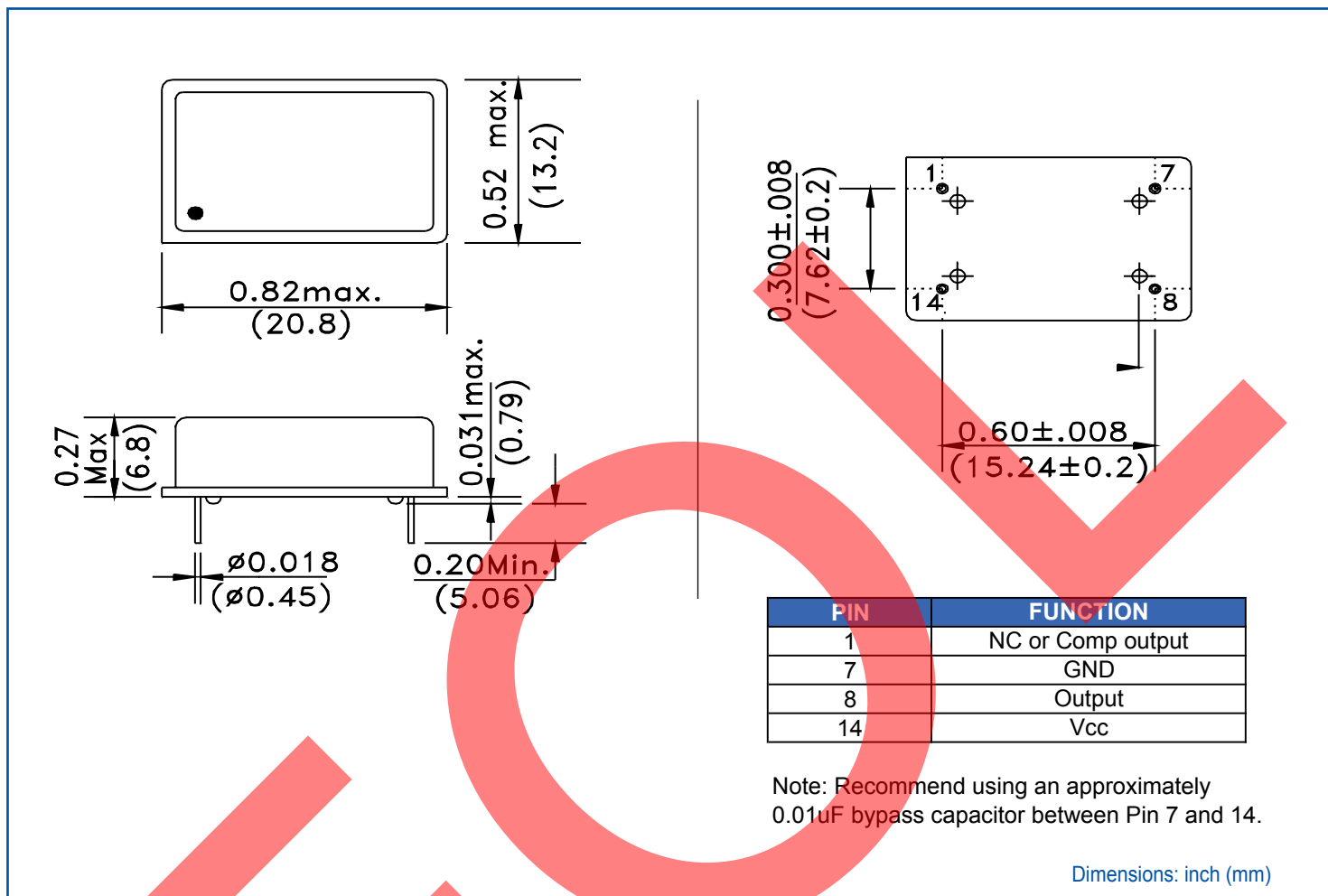


RoHS  
Compliant



20 X 12.6 X 7.2mm

## OUTLINE DRAWING:



**ATTENTION:** Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.

ABRACON IS  
ISO9001:2008  
CERTIFIED



**ABRACON**  
CORPORATION

Visit [www.abracon.com](http://www.abracon.com) for Terms & Conditions of Sale **Revised: 10.23.10**  
30332 Esperanza, Rancho Santa Margarita, California 92688  
tel 949-546-8000 | fax 949-546-8000 | [www.abracon.com](http://www.abracon.com)