

# DLC

# THRU-HOLE CRYSTAL CLOCK OSCILLATOR

## FEATURES

- Thru-Hole DIL14 oscillator
- Low Phase Noise
- Tight Tolerances
- Applications: Base stations, Test equipment, Synthesizers

20.7 x 13.1 x 5.08 mm

20.7 x 13.1 x 7.48 mm



Item	Specification	
Frequency Range	1.0 MHz - 800.0 MHz	
Standard frequencies	2.048 ; 10 ; 20 ; 24.705 ; 30.720 ; 32.768 ; 50 ; 61.44 MHz 76.8 ; 77.760 ; 81.92 ; 100 ; 125 ; 150 ; 155.52 ; 156.25 MHz	
Output Logic	CMOS	
Overall Frequency Stability *	± 15 ppm ~ ± 100 ppm ( see options )	
Operating Temperature Range	0 ~ +70°C commercial application (see options) -40 ~ +85°C industrial application( see options)	
Supply Voltage Vdd	+3.3V ±5%	+5.0V ±5%
Supply Current Idd	90 mA max	100 mA max
Output Level	VOH ≥ 0.9 Vdd	VOL ≤ 0.1 Vdd
Output Load	15 pF	
Symmetry	45 / 55 %	
Rise Time / Fall Time Fr/Ff	5 ns max	
Tri-state function	pin #1 = high or open pin #1 = low	pin #3 ==> oscillation pin #3 ==> high impedance
Start-up Time	10 ms max.	
RMS Jitter ( 12 kHz to 20 MHz band )	1 ps max.	
Packing Unit	100pcs / box	
	<b>Customer specifications on request</b>	

(\*) Includes initial tolerance @+25°C, stability over operating temperature, stability vs. load change, stability vs. supply change and one year aging

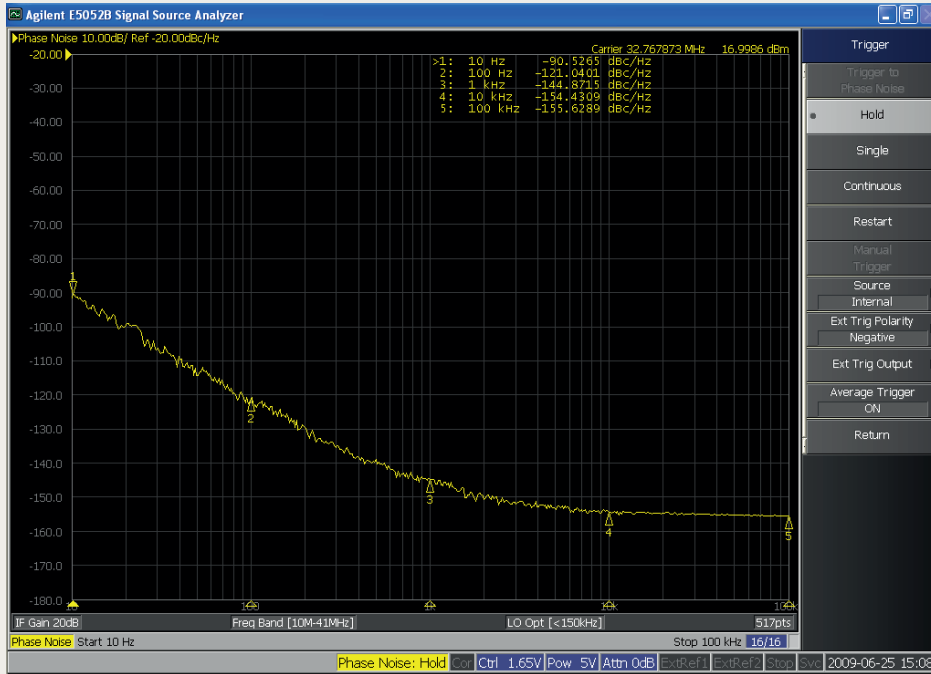
## OPTIONS & ORDERING INFORMATION

### DLC

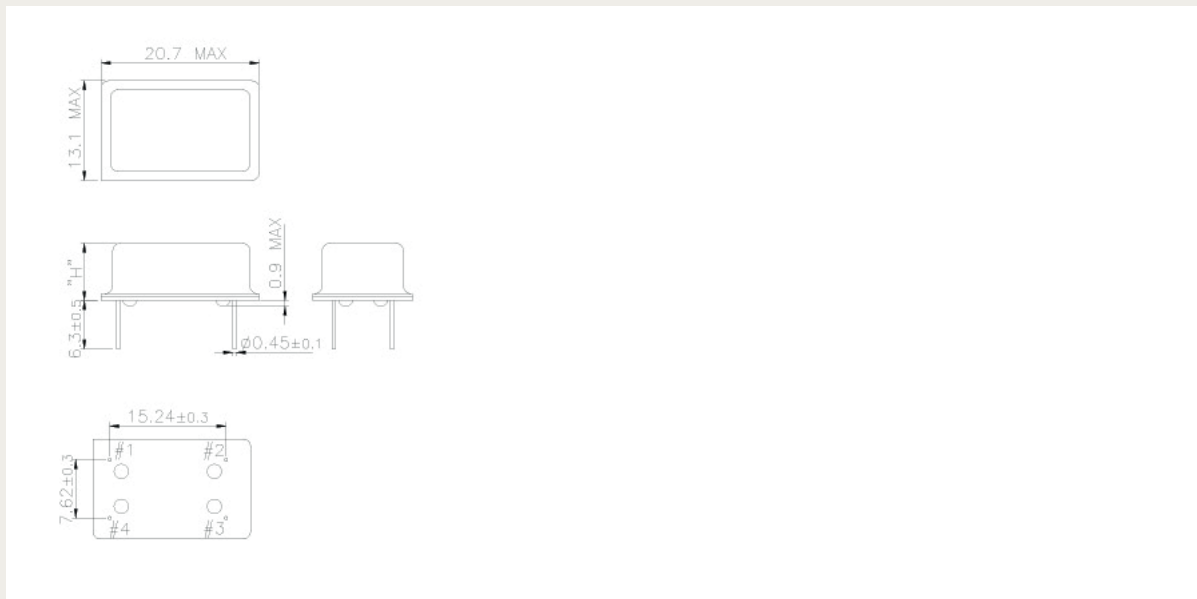
.....	.....	.....	.....	.....	..... MHz
Supply Voltage	Operating Temp. *	Overall Stability *	Tri-state Function	Package height	Frequency in MHz
<b>33</b> = +3.3V	<b>C</b> = 0° / +50°C	<b>15</b> = ±15 ppm	<b>E</b> = Tri-state	<b>H1</b> = 5.08 mm	Please specify the
<b>50</b> = +5.0V	<b>D</b> = -10° / +60°C	<b>20</b> = ±20 ppm	<b>F</b> = no Tri-state	<b>H2</b> = 7.48 mm	frequency in MHz
	<b>E</b> = 0° / +70°C	<b>25</b> = ±25 ppm			
	<b>F</b> = -20° / +70°C	<b>30</b> = ±30 ppm			
	<b>G</b> = -30° / +75°C	<b>50</b> = ±50 ppm			
	<b>H</b> = -30° / +85°C	<b>100</b> = ±100 ppm			
	<b>K</b> = -40° / +85°C				

(\*) Note : Not all combinations are possible, please consult us.

## PHASE NOISE (32.768 MHz)



## OUTLINE DIMENSIONS



Pin Connections    #1 : E/D    #2 : GND    #3: Output    #4 : Vdd