

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 #3 ==> oscillation pin #1 = low 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

Customer specifications on request

(*) 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

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

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

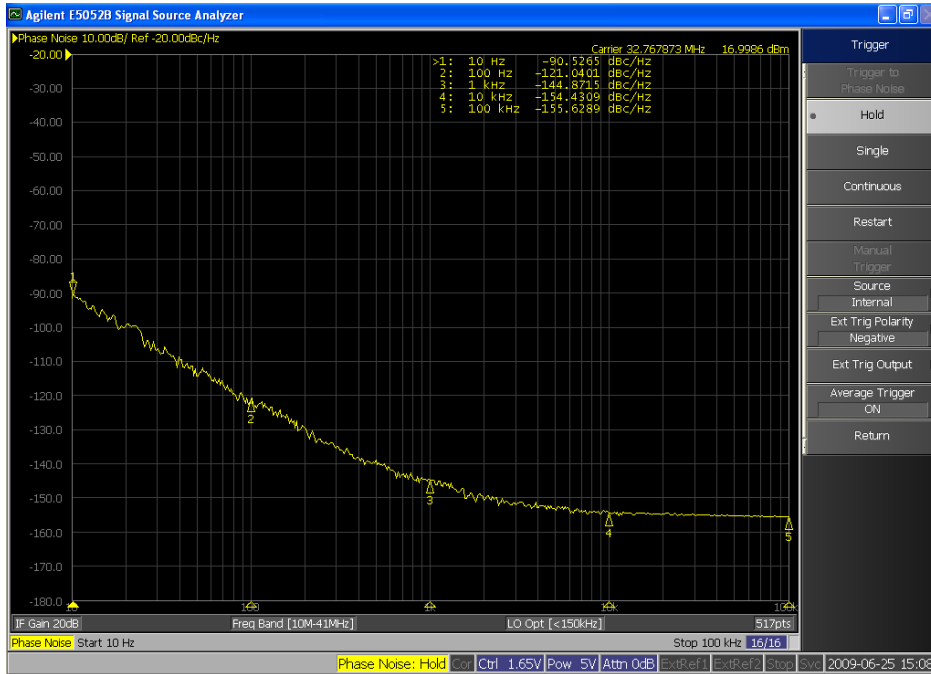
Rev. 09-2012

Datasheet

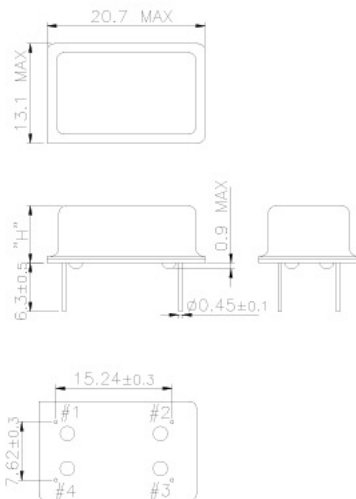
DLC

THRU-HOLE CRYSTAL CLOCK OSCILLATOR

PHASE NOISE (32.768 MHz)



OUTLINE DIMENSIONS



Pin Connections

#1 : E/D

#2 : GND

#3: Output

#4 : Vdd

Rev. 09-2012