

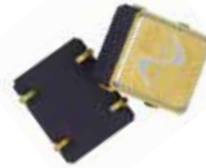
DL4-Series 8.89 x 7.25 x 4.32 (mm)

Wi2Wi's DL4-Series oscillator's rugged ceramic package is designed for extreme environmental/temperature conditions like down-hole drilling. Wi2Wi provides sampling for your proto-typing needs, mass production capability and competitive pricing.

• Features

1. **8.9 x 7.3 x 4.3mm** hermetically sealed ceramic package.
2. **LVC MOS** output with **Tri-state** function available.
3. Supply Voltages of **2.5, 3.0 and 3.3Vdc**.
4. **RoHS** and **REACH** Compliant.

• Electrical Specifications



Wi2Wi, LLC

Phone: 1-800-274-9825

Phone: 1-608-831-4445

Fax: 1-608-831-3343

E-Mail: sales@wi2wi.com

Web: http://wi2wi.com

Parameter		Supply Voltage (±10%)			Units V
		3.3	3.0	2.5	
Frequency Range		0.500000 to 80.0000			MHz
Frequency Stability (Please Specify)	All Causes (Maximum) * ¹	±250, ±300, ±350, ±500			ppm
Temperature Range (Please Specify)	Operating	Per Option (See Part Numbering Guide)			°C
	Storage	-55 to +200			°C
Supply Current (Maximum)	32.768 KHz	0.20			mA
	0.500000 to 9.999999 MHz	5			
	10.000000 to 23.999999 MHz	15			
	24.000000 to 39.999999 MHz	20			
	40.000000 to 80.000000 MHz	45			
Output		LVC MOS			
Load		15pF			
Duty Cycle (at 50% Vcc)		40% to 60% (45% to 55% option)			
Rise/Fall Times (Maximum) (10% to 90%)	32.768 KHz	500			nS
	0.500000 to 9.999999	12			
	10.000000 to 80.000000	8			
Start up Time (Maximum)		10			mS
Output Voltage Levels	High (Minimum)	90 Min (High) , 10 Max (Low)			% Vcc
Pin 1 (Tri-State) (Option)	High (See below) or Open	Enable			
	Low (See below)	Disable			
	High Value (Minimum)	80			% Vcc
	Low Value (Maximum)	20			% Vcc
Environmental Specifications	Shock	10,000g / 0.3mS / 1/2 Sine			
	Vibration	10 to 2000Hz / 40g			

*1 - Inclusive of Tolerance @25°C, Operating Temperature, Supply Voltage, Load, 1st Year Aging, Shock and Vibration.

• Part Numbering Guide

ex) **DL4-T-25000X-O-B-B-3-J-X***

* - for standard or assigned for customization.

ENABLE

T = Tri-State
N = No Connect

FREQUENCY

00500X-99999X =
0.5000 MHz –
80.000 MHz

OUTPUT

O = LVC MOS

FREQUENCY STABILITY

A = ±250 ppm
B = ±300 ppm
C = ±350 ppm
D = ±500 ppm

OPERATING TEMPERATURE

A = -20 to +150°C
B = -20 to +180°C
C = -20 to +200°C
D = -55 to +150°C
E = -55 to +180°C
F = -55 to +200°C

SUPPLY VOLTAGE

2 = 2.5
F = 3.0
3 = 3.3

PACKAGE OPTION

J = J-Lead

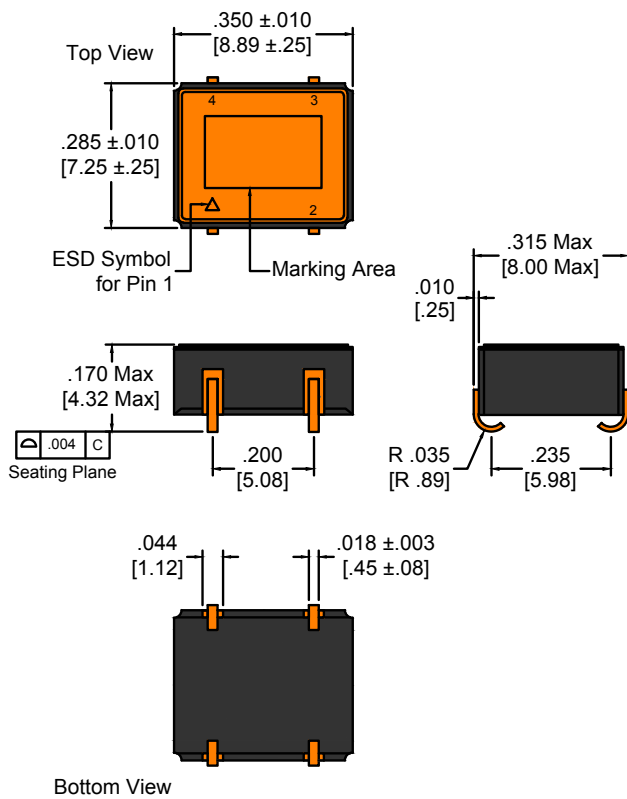
Temp Range	Temperature Stability (ppm)			
	A = ±250	B = ±300	C = ±350	D = ±500
A = -20°C to +150°C	X	X	X	X
B = -20°C to +180°C		X	X	X
C = -20°C to +200°C			X	X
D = -55°C to +150°C	X	X	X	X
E = -55°C to +180°C		X	X	X
F = -55°C to +200°C			X	X

• Stability vs Temp Range Options

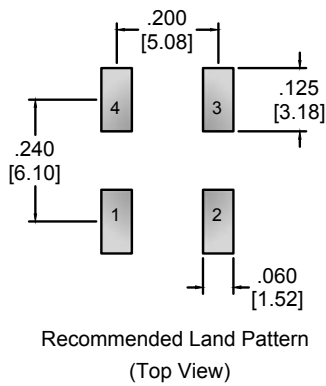
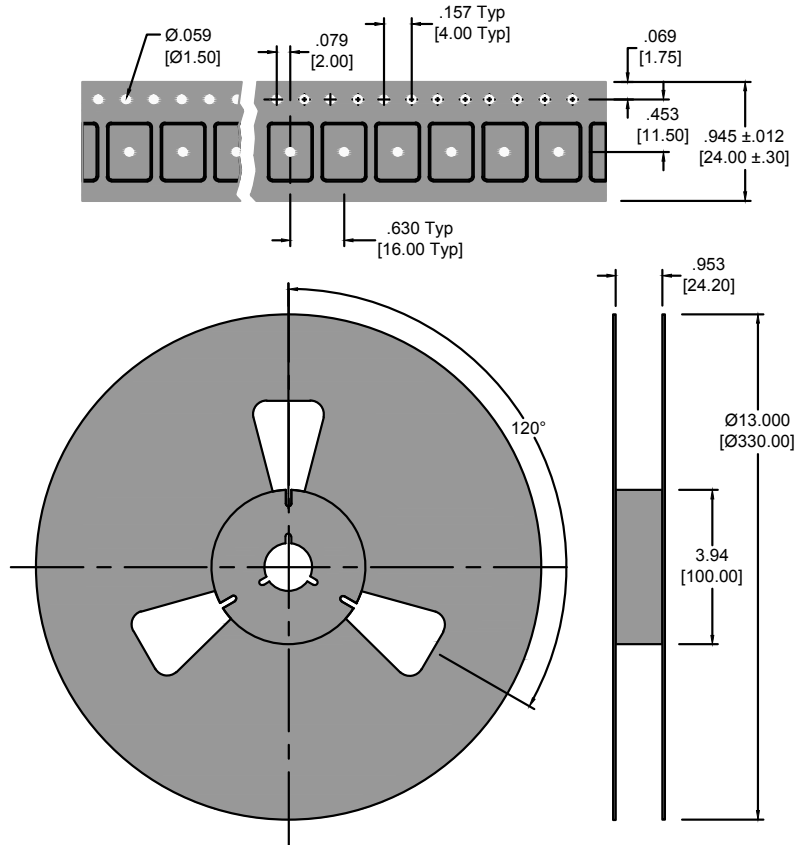
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• PACKAGE DIMENSIONS

Tolerance: ± 0.008 [.20mm] (Unless otherwise specified)

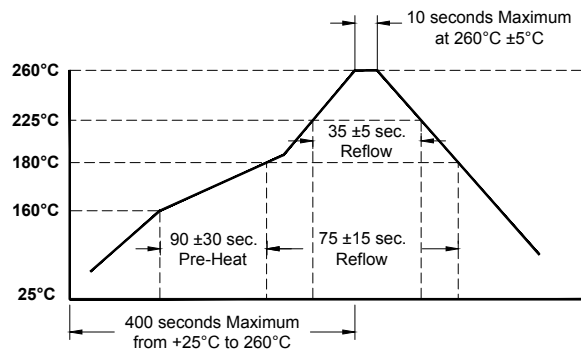


• TAPE & REEL



PIN	CONNECTION
1	Tri-state or No Connect
2	Ground/Case
3	Output
4	Supply Voltage

• REFLOW PROFILE



Contacts:

Electro Au, 11.8 to 40.0 μinches (.30 to 1.0 μm) over
Electro Ni, 50 to 350 μinches (1.27 to 8.89 μm)

All product is supplied **RoHS and REACH** compliant.
Specifications subject to change without notice.