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155.52 MHz LVDS Oscillator

4MA155520Z4

High Performance Differential Oscillator

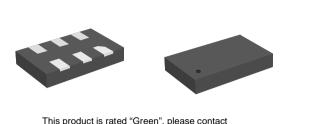
ADVANCE DATASHEET

Features

• Frequency: 155.52 MHz Output Type: **LVDS** Frequency Stability: ± 50ppm Supply Voltage: 2.5V & 3.3V

Standard Packages: 5.0 x 3.2 mm; 7.0 x 5.0 mm RMS phase jitter: 0.7ps typical (12k to 20MHz)

Operating Temperature: - 40 to 85 °C



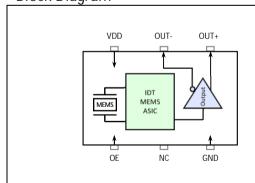
This product is rated "Green", please contact IDT for environmental compliancy information

Specification

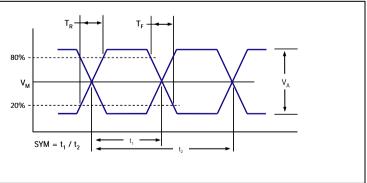
Parameter -	2.5 V Specifications			3.3 V Specifications			Units	Conditions
	Min	Тур	Max	Min	Тур	Max		Solialius.is
Supply Voltage (V _{DD})		2.50			3.30		V	
Output Frequency		155.52			155.52		MHz	
Frequency Stability			± 50			± 50	ppm	-40 to 85°C
Supply Current		95			95		mA	No load
Input LOW level			$0.3V_{DD}$			$0.3V_{DD}$	V	At OE pin
Input HIGH level	0. 7V _{DD}			0. 7V _{DD}			V	At OE pin
Output LOW level		1.075			1.075		V	
Output HIGH level		1.425			1.425		V	
Amplitude (V _A)		0.35			0.35		V	Single Ended output swing (Pk-Pk)
Mid Level (V _M)		1.25			1.25		V	
Rise Time (T _R)		400			400		ps	Maximum; 20/80% of V _A ; Output load (CL) = 2pF
Fall Time (T _F)		400			400		ps	Maximum; 20/80% of V _A ; Output load (CL) = 2pF
Symmetry (SYM)	45		55	45		55	%	Worst case; measured at 50% of waveform
Period Jitter		5			5		ps	Measured over 10k cycles, rms
Phase Jitter			1			1	ps	12k to 20MHz, rms
Aging			± 5			± 5	ppm	25°C, 10 years

Note: Above specifications are typical at room temperature (25°C) unless otherwise specified. Frequency stability includes initial frequency tolerance, temperature variation, supply voltage variation, reflow drift, and aging (+25 °C, 10 years)

Block Diagram

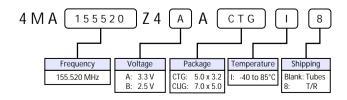


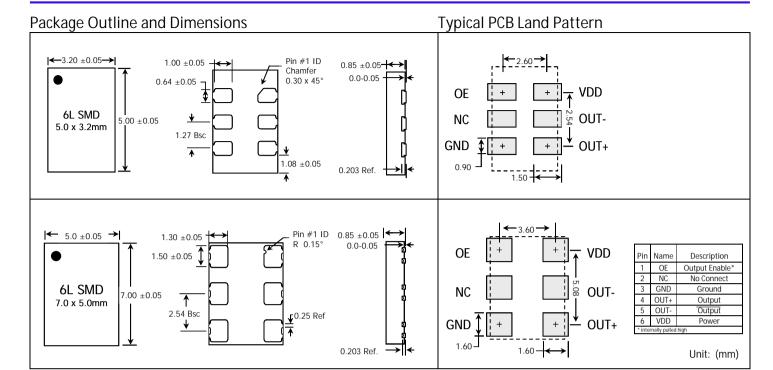
Output Waveform



Part Ordering Information

Package Size	Voltage	Ordering Code
5.0 x 3.2 mm	3.3 V	4MA155520Z4AACTGI
3.0 X 3.2 IIIIII	2.5 V	4MA155520Z4BACTGI
7.0 x 5.0 mm	3.3 V	4MA155520Z4AACUGI
7.0 x 3.0 IIIII	2.5 V	4MA155520Z4BACUGI







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