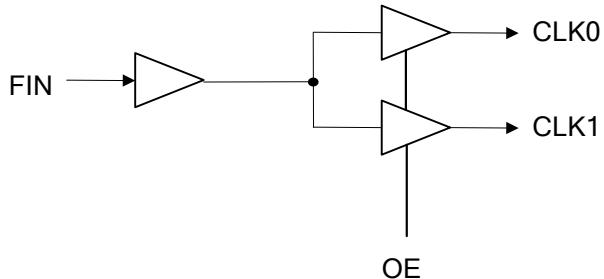


FEATURES

- Supports 3.3V, 2.5V, and 1.8V power supplies
- Frequency Support
 - 3.3V Supplies: DC – 200 MHz
 - 2.5V Supplies: DC – 150 MHz
 - 1.8V Supplies: DC – 100 MHz
- Output Enable (OE) pin
- LVCMS Input/Output
 - Accepts SST and non SST clock signals
- Operating temperature range from -40°C to 85°C
- Available in space-saving 6-pin DFN GREEN/RoHS compliant package.

DESCRIPTION

BLOCK DIAGRAM



PIN CONFIGURATION AND DESCRIPTION

FIN	1	6	OE
CLK1	2	5	VDD
GND	3	4	CLK0

DFN-6L
(2.0 x 1.3 x 0.6mm)

Name	Pin Assignment	Type	Description
FIN	1	I	Reference input pin
CLK1	2	O	Clock Output
GND	3	P	GND connection
CLK0	4	O	Clock Output
VDD	5	P	V _{DD} connection
OE	6	I	Output Enable (OE) input. Outputs are enabled when set high. Outputs are 'Active low' mode when set low.

DC – 200 MHz 1:2 Fan-Out Buffer
ELECTRICAL SPECIFICATIONS
ABSOLUTE MAXIMUM RATINGS

PARAMETERS	SYMBOL	MIN.	MAX.	UNITS
Supply Voltage Range	V_{DD}	-0.5	4.6	V
Input Voltage Range	V_I	-0.5	$V_{DD}+0.5$	V
Output Voltage Range	V_O	-0.5	$V_{DD}+0.5$	V
Soldering Temperature (Green package)			260	°C
Storage Temperature	T_S	-65	150	°C
Ambient Operating Temperature*		-40	85	°C

Exposure of the device under conditions beyond the limits specified by Maximum Ratings for extended periods may cause permanent damage to the device and affect product reliability. These conditions represent a stress rating only, and functional operations of the device at these or any other conditions above the operational limits noted in this specification is not implied. *Operating temperature is guaranteed by design. Parts are tested to commercial grade only.

AC SPECIFICATIONS

PARAMETERS	CONDITIONS	MIN.	TYP.	MAX.	UNITS
Frequency ^[1]	@ $V_{DD} = 3.3V$, 15pF Load	DC		200	MHz
	@ $V_{DD} = 2.5V$, 15pF Load			150	
	@ $V_{DD} = 1.8V$, 15pF Load			100	
Input Voltage Low				$0.3 \times V_{DD}$	V
Input Voltage High		0.7x V_{DD}			V
Output Enable Time	Ta=25° C, 15pF Load			2	ms
Output Rise Time	15pF Load, 10/90% V_{DD} , 3.3V		2.0	3.0	ns
Output Fall Time	15pF Load, 90/10% V_{DD} , 3.3V		2.0	3.0	ns
Duty Cycle	Dependant upon input duty cycle				%

Notes: [1] Higher frequencies may be achieved for lower capacitive loads.

DC SPECIFICATIONS

PARAMETERS	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS
Supply Current, Dynamic, with Loaded CMOS Output	I _{DD}	@ V _{DD} = 3.3V, 32kHz, load=15pF		0.8		mA
Supply Current, Dynamic, with Loaded CMOS Output	I _{DD}	@ V _{DD} = 2.5V, 32KHz, load=15pF		0.6		mA
Supply Current, Dynamic, with Loaded CMOS Output	I _{DD}	@ V _{DD} = 1.8V, 32kHz, load=15pF		0.4		mA
Supply Current, Dynamic, with Loaded Outputs	I _{DD}	When OE=0			5	µA
Operating Voltage	V _{DD}		1.62		3.63	V
Output Low Voltage	V _{OL}	I _{OL} = +4mA			0.4	V
Output High Voltage	V _{OH}	I _{OH} = -4mA	V _{DD} – 0.4			V
Output Current	I _{OSD}	V _{OL} = 0.4V, V _{OH} = 2.4V	8			mA

PACKAGE DRAWINGS (GREEN PACKAGE COMPLIANT)
