

Key Electrical Specifications – $V_{dd} = 2.5V$

Parameters		Minimum	Typical	Maximum	Units	Notes
Supply Current (no load):	1.0 to 39.9999MHz		6	15	mA	CL=0pF
	40.0 to 79.9999MHz		7	15	mA	RL=∞
	80.0 to 124.9999MHz		8	15	mA	T=25°C
	125.0 to 150MHz		9	15	mA	(Standard CL: 15pF)
	1.0 to 39.9999MHz		7	15	mA	CL=0pF
	40.0 to 79.9999MHz		8	15	mA	RL=∞
	80.0 to 124.9999MHz		9	15	mA	T=25°C
	125.0 to 150MHz		10	15	mA	(CL option: 25pF)
	1.0 to 39.9999MHz		8	16	mA	CL=0pF
	40.0 to 79.9999MHz		9	16	mA	RL=∞
	80.0 to 124.9999MHz		10	16	mA	T=25°C
	125.0 to 150MHz		11	16	mA	(CL option: 40pF)
Output Voltage:	V_{OH}	$0.8 \cdot V_{dd}$			V	
	V_{OL}			$0.2 \cdot V_{dd}$	V	CL=15, 25pF
	V_{OH}	$0.9 \cdot V_{dd}$			V	
	V_{OL}			$0.1 \cdot V_{dd}$	V	CL=40pF
Rise Time: Fall Time:	T_r		1.0	2.0	ns	CL=15pF; T=25°C
	T_f		0.9	2.0	ns	20%/80%*VDD
	T_r		1.1	2.0	ns	CL=25pF; T=25°C
	T_f		0.9	2.0	ns	20%/80%*VDD
	T_r		1.0	2.0	ns	CL=40pF; T=25°C
	T_f		0.9	2.0	ns	20%/80%*VDD
Cycle to Cycle Jitter:			50		ps	F=100MHz
Period Jitter RMS:			5		ps	F=100MHz

Key Electrical Specifications – $V_{dd} = 3.3V$

Parameters		Minimum	Typical	Maximum	Units	Notes
Supply Current (no load):	1.0 to 39.9999MHz		7	15	mA	CL=0p RL=∞ T=25°C (Standard CL: 15pF)
	40.0 to 79.9999MHz		8	15	mA	
	80.0 to 124.9999MHz		9	15	mA	
	125.0 to 150MHz		10	15	mA	
	1.0 to 39.9999MHz		8	16	mA	CL=0p RL=∞ T=25°C (CL option: 25pF)
	40.0 to 79.9999MHz		9	16	mA	
	80.0 to 124.9999MHz		10	16	mA	
	125.0 to 150MHz		11	16	mA	
	1.0 to 39.9999MHz		8	16	mA	CL=0p RL=∞ T=25°C (CL option: 40pF)
	40.0 to 79.9999MHz		9	16	mA	
	80.0 to 124.9999MHz		10	16	mA	
	125.0 to 150MHz		11	16	mA	
Output Voltage:	V_{OH}	$0.8 * V_{dd}$			V	CL=15pF
	V_{OL}			$0.2 * V_{dd}$	V	
	V_{OH}	$0.9 * V_{dd}$			V	CL=25, 40pF
	V_{OL}			$0.1 * V_{dd}$	V	
Rise Time: Fall Time:	Tr		1.0	2.0	ns	CL=15pF; T=25°C 20%/80%*VDD
	Tf		0.9	2.0	ns	
	Tr		1.0	2.0	ns	CL=25pF; T=25°C 20%/80%*VDD
	Tf		0.9	2.0	ns	
	Tr		0.8	2.0	ns	CL=40pF; T=25°C 20%/80%*VDD
	Tf		0.8	2.0	ns	
Cycle to Cycle Jitter:			50		ps	F=100MHz
Period Jitter RMS:			5		ps	F=100MHz



Absolute Maximum Ratings

Item	Minimum	Maximum	Unit	Condition
Supply Voltage	-0.3	+4.0	V	
Input Voltage	-0.3	Vdd+0.3	V	
Junction Temp.	-----	+150	°C	
Storage Temp.	-55	+150	°C	
Soldering Temp.	-----	+260	°C	40sec max
ESD			V	
HBM		4,000		
MM		200		
CDM		1,500		

OPTIONS AND PART IDENTIFICATION: (Left Blank if Standard)

Programmed Orders (Quantity > 1,000pcs)

ASDMB - MHz - - -

Frequency in MHz
e.g. 14.3181 MHz (Maximum 4 digits after decimal)

Operating Temp.
Blank: 0°C ~ +70°C
E: -20°C ~ +70°C
L: -40°C ~ +85°C
X: -40°C ~ +105°C

Overall Freq. Stability
C: ±50ppm (STD)
Y: ±10ppm
R: ±25 ppm

Output Load
Blank: 15pF
25: 25pF
40: 40pF

Packaging
Blank*: 140pcs / Tube
T: 1,000pcs / reel
T3: 3,000pcs / reel
T5: 5,000pcs / reel
T10: 10,000pcs / reel

* For Quick turn-around programmable orders < 1000pcs: Due to the immediate availability of stock and the qty of the order, the parts may be delivered as BULK: Cut Tape, Loose parts in Antistatic Bag or in Tube(s). The MOQ per the series will still apply for Tube packaging.

Un-Programmed Orders

Blank un-programmed oscillators are available for quick turn engineering requirements. Please call ABRACON for more information.

ASDMB - BLANK - - - -

Operating Temp.
Blank: 0°C ~ +70°C
E: -20°C ~ +70°C
L: -40°C ~ +85°C
X: -40°C ~ +105°C

Overall Freq. Stability
C: ±50ppm (STD)
Y: ±10ppm
R: ±25 ppm

Output Load
Blank: 15pF
25: 25pF
40: 40pF

Packaging
Blank: 140pcs / Tube
T: 1,000pcs / reel
T3: 3,000pcs / reel
T5: 5,000pcs / reel
T10: 10,000pcs / reel

 **RoHS/RoHS II Compliant**

FEEDING (PULL) DIRECTION