

Features

- Frequencies between 1 MHz and 110 MHz accurate to 6 decimal places
- Operating temperature from -40°C to 125°C. For -55°C option, refer to SiT2020 and SiT2021
- Supply voltage of 1.8V or 2.5V to 3.3V
- Excellent total frequency stability as low as ±20 ppm
- Low power consumption of 3.6 mA typical at 1.8V
- LVCMOS/LVTTL compatible output
- 5-pin SOT23-5 package: 2.9mm x 2.8mm
- RoHS and REACH compliant, Pb-free, Halogen-free and Antimony-free
- For AEC-Q100 clock generators, refer to SiT2024 and SiT2025

Electrical Specifications

Table 1. Electrical Characteristics^[1, 2]

Applications

- Industrial, medical, automotive, avionics and other high temperature applications
- Industrial sensors, PLC, motor servo, outdoor networking equipment, medical video cam, asset tracking systems, etc.



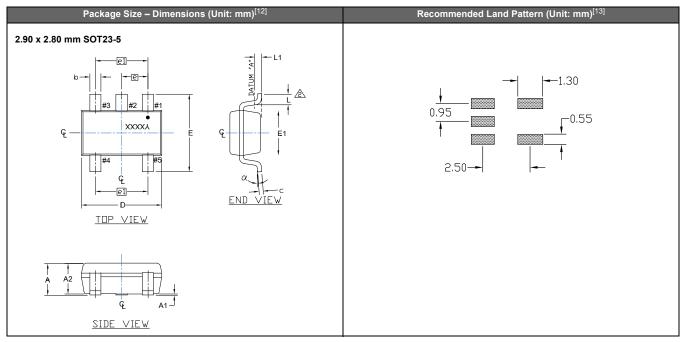
Parameters	Symbol	Min.	Тур.	Max.	Unit	Condition	
			F	requency R	ange		
Output Frequency Range	f	1	-	110	MHz	Refer to Table 14 for the exact list of supported frequencies list of supported frequencies	
			Frequer	ncy Stability	and Aging]	
Frequency Stability	F_stab	-20	-	+20	ppm	Inclusive of Initial tolerance at 25°C, 1st year aging at 25°C, and	
		-25	-	+25	ppm	variations over operating temperature, rated power supply voltage and load (15 pF \pm 10%).	
		-30	-	+30	ppm		
		-50	-	+50	ppm		
			Operati	ng Tempera	ture Range)	
Operating Temperature Range (ambient)	T_use	-40	-	+105	°C	Extended Industrial	
		-40	-	+125	°C	Automotive	
		Si	upply Voltag	e and Curr	ent Consur	nption	
Supply Voltage	Vdd	1.62	1.8	1.98	V		
		2.25	2.5	2.75	V		
		2.52	2.8	3.08	V		
		2.7	3.0	3.3	V		
		2.97	3.3	3.63	V		
		2.25	-	3.63	V		
Current Consumption	Idd	-	3.8	4.5	mA	No load condition, f = 20 MHz, Vdd = 2.8V, 3.0V or 3.3V	
		-	3.6	4.2	mA	No load condition, f = 20 MHz, Vdd = 2.5V	
		-	3.4	4	mA	No load condition, f = 20 MHz, Vdd = 1.8V	
OE Disable Current	l_od	-	-	4.4	mA	Vdd = 2.5V to 3.3V, OE = Low, output in high Z state.	
		-	-	4.1	mA	Vdd = 1.8V, OE = Low, output in high Z state.	
Standby Current	I_std	-	2.6	8.5	μΑ	Vdd = 2.8V to 3.3V, ST = Low, Output is Weakly Pulled Down	
		-	1.4	5.5	μΑ	Vdd = 2.5V, ST = Low, Output is Weakly Pulled Down	
		-	0.6	3.5	μΑ	Vdd = 1.8V, ST = Low, Output is Weakly Pulled Down	
			LVCMOS	Output Ch	aracteristic	s	
Duty Cycle	DC	45	-	55	%	All Vdds	
Rise/Fall Time	Tr, Tf	-	1.0	2.0	ns	Vdd = 2.5V, 2.8V, 3.0V or 3.3V, 20% - 80%	
	Ī	-	1.3	2.5	ns	Vdd =1.8V, 20% - 80%	
		-	1.0	3	ns	Vdd = 2.25V - 3.63V, 20% - 80%	
Output High Voltage	VOH	90%	-	-	Vdd	IOH = -4 mA (Vdd = 3.0V or 3.3V) IOH = -3 mA (Vdd = 2.8V or 2.5V) IOH = -2 mA (Vdd = 1.8V)	
Output Low Voltage	VOL	-	-	10%	Vdd	IOL = 4 mA (Vdd = 3.0V or 3.3V) IOL = 3 mA (Vdd = 2.8V or 2.5V) IOL = 2 mA (Vdd = 1.8V)	

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Dimensions and Patterns



Notes:

Top marking: Y denotes manufacturing origin and XXXX denotes manufacturing lot number. The value of "Y" will depend on the assembly location of the device.
 A capacitor value of 0.1 μF between Vdd and GND is required

Symbol	Min.	Nom.	Max.				
A	0.90	1.27	1.45				
A1	0.00	0.07	0.15				
A2	0.90	1.2	1.30				
b	0.30	0.35	0.50				
С	0.14	0.153	0.20				
D	2.90						
E	2.80						
E1	1.60						
е	0.95						
e1	1.90						
L	0.30	0.38	0.55				
L1		0.25					
а	0°	_	8°				

Table 13. Dimension Table

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