

### Description

The SiT9367 is a 220.000001 MHz to 725 MHz differential MEMS XO engineered for low-jitter applications. Utilizing SiTime's unique DualMEMS<sup>®</sup> temperature sensing and TurboCompensation<sup>®</sup> technology, the SiT9367 delivers exceptional dynamic performance by providing resistance to airflow, thermal gradients, shock and vibration. This device also integrates multiple on-chip regulators to filter power supply noise, eliminating the need for a dedicated external LDO.

The SiT9367 can be factory programmed for any combination of frequency, stability, voltage, and output signaling. Programmability enables designers to optimize clock configurations while eliminating long lead times and customization costs associated with quartz devices where each frequency is custom built.

The wide frequency range and programmability makes this device ideal for telecom, networking, and industrial applications that require a variety of frequencies and operate in noisy environments.

Refer to Manufacturing Notes for proper reflow profile, tape and reel dimension, and other manufacturing related information.

### Features

 Any frequency between 220.000001 MHz and 725 MHz, accurate to 6 decimal places.

For HCSL output signaling, maximum frequency is 500 MHz. Contact SiTime for higher frequency options. (For additional frequencies, refer to SiT9366 and SiT9365 datasheets)

- LVPECL, Low-swing LVPECL, LVDS and HCSL output signaling
- 0.1ps RMS phase jitter (random) for Ethernet applications
- Frequency stability as low ±10 ppm
- Wide temperature range from -40°C to 105°C Contact SiTime for higher temperature range options
- Industry-standard packages: 3.2 x 2.5 mm<sup>2</sup>, 7.0 x 5.0 mm<sup>2</sup> and 5.0 x 3.2 mm<sup>2</sup> package

### Applications

- 100 Gbps Ethernet, SONET, SATA, SAS, Fibre Channel
- Telecom, networking, instrumentation, storage, servers

Related products for automotive applications.

For aerospace and defense applications SiTime recommends using only Endura<sup>™</sup> SiT9347.



### Block Diagram

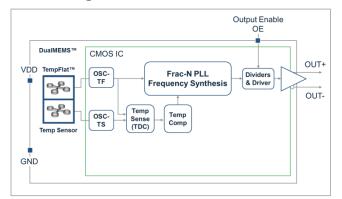
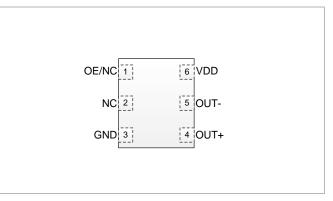


Figure 1. SiT9367 Block Diagram

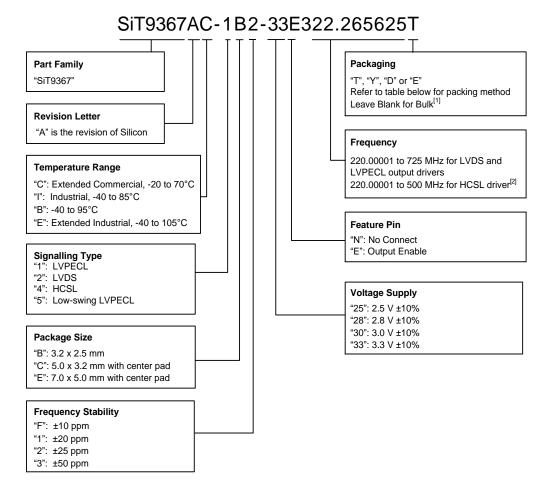
# Package Pinout







# **Ordering Information**



#### Notes:

1. Bulk is available for sampling only.

2. Contact SiTime for higher frequency HCSL options.

#### Table 1. Ordering Codes for Supported Tape & Reel Packing Method

Device Size (mm x mm)	8 mm T&R (3ku)	8 mm T&R (1ku)	12 mm T&R (3ku)	12 mm T&R (1ku)	16 mm T&R (3ku)	16 mm T&R (1ku)
7.0 x 5.0	_	_	—	—	Т	Y
5.0 x 3.2			Т	Y		
3.2 x 2.5	D	E			_	—



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### **Electrical Characteristics**

All Min and Max limits in the Electrical Characteristics tables are specified over temperature and rated operating voltage with standard output termination shown in the termination diagrams. Typical values are at 25°C at nominal supply voltage.

#### Table 2. Electrical Characteristics – Common to LVPECL, Low-swing LVPECL, LVDS and HCSL

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
				Frequen	cy Range	
Output Frequency Range	f	220.000001	-	725	MHz	Accurate to 6 decimal places
			F	requenc	y Stability	,
Frequency Stability	F_stab	-10	-	+10	ppm	Inclusive of initial tolerance, operating temperature, rated power
		-20	-	+20	ppm	supply voltage and load variations
		-25	-	+25	ppm	
		-50	-	+50	ppm	
First Year Aging	F_1y	-0.7	±0.4	+0.7	ppm	At 85°C
5 Year Aging	F_5y	-1.1	±0.7	+1.1	ppm	At 85°C
10 Year Aging	F_10y	-1.3	±0.8	+1.3	ppm	At 85°C
20 Year Aging	F_20y	-1.5	±1.0	+1.5	ppm	At 85°C
			Т	emperat	ure Range	)
Operating Temperature Range	T_use	-20	-	+70	°C	Extended Commercial
		-40	-	+85	°C	Industrial
		-40	-	+95	°C	
		-40	-	+105	°C	Extended Industrial
			-	Supply	Voltage	
Supply Voltage	Vdd	2.97	3.30	3.63	V	
		2.70	3.00	3.30	V	
		2.52	2.80	3.08	V	
		2.25	2.50	2.75	V	
			In	put Char	acteristic	S
Input Voltage High	VIH	70%	-	-	Vdd	Pin 1, OE
Input Voltage Low	VIL	-	-	30%	Vdd	Pin 1, OE
Input Pull-up Impedance	Z_in	-	100	-	kΩ	Pin 1, OE logic high or logic low
			Ou	tput Cha	racteristi	cs
Duty Cycle	DC	45	-	55	%	
			Sta	irtup and	l OE Timi	ng
Startup Time	T_start	-	-	3.0	ms	Measured from the time Vdd reaches its rated minimum value.
OE Enable/Disable Time	T_oe	_	-	3.8	μs	f = 322.265625 MHz. Measured from the time OE pin reaches rated VIH and VIL to the time clock pins reach 90% of swing and high-Z. See Figure 8 and Figure 9



### Table 3. Electrical Characteristics – LVPECL Specific

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
			Cı	urrent Con	sumption	
Current Consumption	Idd	-	-	94	mA	Excluding Load Termination Current, Vdd = 3.3 V or 2.5 V
OE Disable Supply Current	I_OE	-	-	63	mA	OE = Low
Output Disable Leakage Current	I_leak	-	0.15	-	μA	OE = Low
Maximum Output Current	I_driver	-	-	33	mA	Maximum average current drawn from OUT+ or OUT-
Output Characteristics for LVPECL						VPECL
Output High Voltage	VOH	Vdd-1.15	-	Vdd-0.7	V	See Figure 4
Output Low Voltage	VOL	Vdd-2.0	-	Vdd-1.5	V	See Figure 4
Output Differential Voltage Swing	V_Swing	1.2	1.6	2.0	V	See Figure 5
Rise/Fall Time	Tr, Tf	-	225	330	ps	20% to 80%, see Figure 5
		Output	Charac	teristics f	or Low-s	wing LVPECL
Output High Voltage	VOH	Vdd-1.2	-	Vdd-0.75	V	See Figure 4
Output Low Voltage	VOL	Vdd-1.8	-	Vdd-1.25	V	See Figure 4
Output Differential Voltage	V_Swing	0.4	1	1.2	V	Output frequency 1 to 220 MHz, See Figure 5
Swing		0.4	1	1.6	V	Output frequency greater than 220 MHz, See Figure 5
Rise/Fall Time	Tr, Tf	-	225	320	ps	20% to 80%. See Figure 5
			Jitter -	– 7.0 x 5.0	mm Pacl	kage
RMS Period Jitter <sup>[3]</sup>	T_jitt	-	1.0	1.6	Ps	f = 100, 156.25 or 212.5 MHz, Vdd = 3.3 V or 2.5 V
RMS Phase Jitter (random)	T_phj	-	0.220	0.270	Ps	f = 322.265625 MHz, Integration bandwidth = 12 kHz to 20 MHz, all Vdd levels, includes spurs. Temperature ranges -20 to 70°C and -40 to 85°C.
		-	0.220	0.300	Ps	f = 322.265625 MHz, Integration bandwidth = 12 kHz to 20 MHz, all Vdd levels, includes spurs. Temperature ranges -40 to 95°C and -40 to 105°C
		-	0.1	-	Ps	f = 322.265625 MHz, IEEE802.3-2005 10GbE jitter mask integration bandwidth = 1.875 MHz to 20 MHz, Includes spurs, all Vdd levels
		Jitter -	– 5.0 x 3	3.2 and 3.2	2 x 2.5 mr	n Packages
RMS Period Jitter <sup>[3]</sup>	T_jitt	-	1.0	1.6	Ps	f = 100, 156.25 or 212.5 MHz, Vdd = 3.3 V or 2.5 V
RMS Phase Jitter (random)	T_phj	_	0.225	0.282	ps	f = 322.265625 MHz, Integration bandwidth = 12 kHz to 20 MHz, all Vdd levels, includes spurs. Temperature ranges -20 to 70°C and -40 to 85°C.
		-	0.225	0.315	ps	f = 322.265625 MHz, Integration bandwidth = 12 kHz to 20 MHz, all Vdd levels, includes spurs. Temperature ranges -40 to 95°C and -40 to 105°C
		_	0.1	-	ps	f = 322.265625 MHz, IEEE802.3-2005 10GbE jitter mask integration bandwidth = 1.875 MHz to 20 MHz, Includes spurs, all Vdd levels

Notes: 3. Measured according to JESD65B.



### Table 4. Electrical Characteristics – LVDS Specific

Parameter	Symbol	Min.	Tvp.	Max.	Unit	Condition
i aramotor	Cymbol				sumption	
Current Consumption	ldd	_	_	85	mA	Excluding Load Termination Current, Vdd = 3.3 V or 2.5 V
OE Disable Supply Current	I OE	_	-	63	mA	OE = Low
Output Disable Leakage Current	_ I_leak	_	0.15	_	μA	OE = Low
Output Characteristics						S
Differential Output Voltage	VOD	300	-	450	mV	See Figure 6
VOD Magnitude Change	ΔVOD	-	-	50	mV	See Figure 6
Offset Voltage	VOS	1.125	-	1.375	V	See Figure 6
VOS Magnitude Change	ΔVOS	-	-	50	mV	See Figure 6
Rise/Fall Time	Tr, Tf	-	370	470	ps	Measured with 2 pF capacitive loading to GND, 20% to 80%, see Figure 3
			Jitter -	- 7.0 x 5.0	mm Pacl	kage
RMS Period Jitter <sup>[4]</sup>	T_jitt	-	0.92	1.6	ps	f = 100, 156.25 or 212.5 MHz, Vdd = 3.3 V or 2.5 V
RMS Phase Jitter (random)	T_phj	_	0.215	0.265	ps	f = 322.265625 MHz, Integration bandwidth = 12 kHz to 20 MHz, all Vdd levels, includes spurs. Temperature ranges -20 to 70°C and -40-85°C.
		-	0.215	0.280	ps	f = 322.265625 MHz, Integration bandwidth = 12 kHz to 20 MHz, all Vdd levels, includes spurs. Temperature ranges are -40 to 95°C and -40 to 105°C.
		_	0.1	-	ps	f = 322.265625 MHz, IEEE802.3-2005 10GbE jitter mask integration bandwidth = 1.875 MHz to 20 MHz. Includes spurs for all Vdd levels.
		Jitter ·	– 5.0 x 3	3.2 and 3.3	2 x 2.5 mr	n Packages
RMS Period Jitter <sup>[4]</sup>	T_jitt	_	0.92	1.6	ps	f = 100, 156.25 or 212.5 MHz, Vdd = 3.3 V or 2.5 V
RMS Phase Jitter (random)	T_phj	_	0.235	0.282	ps	f = 322.265625 MHz, Integration bandwidth = 12 kHz to 20 MHz, all Vdd levels, includes spurs. Temperature ranges -20 to 70°C and -40-85°C.
		_	0.235	0.310	ps	f = 322.265625 MHz, Integration bandwidth = 12 kHz to 20 MHz, all Vdd levels, includes spurs. Temperature ranges are -40 to 95°C and -40 to 105°C.
		_	0.1	-	ps	f = 322.265625 MHz, IEEE802.3-2005 10GbE jitter mask integration bandwidth = 1.875 MHz to 20 MHz. Includes spurs for all Vdd levels.

Notes:

4. Measured according to JESD65B.



#### Table 5. Electrical Characteristics – HCSL Specific

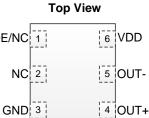
Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
			Cu	Irrent Cor	sumption	1
Current Consumption	ldd	-	-	97	mA	Excluding Load Termination Current, Vdd = 3.3 V or 2.5 V
OE Disable Supply Current	I_OE	-	-	63	mA	OE = Low
Output Disable Leakage Current	I_leak	-	0.15	-	μA	OE = Low
Maximum Output Current	I_driver	-	-	35	mA	Maximum average current drawn from OUT+ or OUT-
			Ou	tput Char	acteristic	S
Output High Voltage	VOH	0.60	-	0.90	V	See Figure 4
Output Low Voltage	VOL	-0.05	-	0.08	V	See Figure 4
Output Differential Voltage Swing	V_Swing	1.2	1.4	1.9	V	See Figure 5
Rise/Fall Time	Tr, Tf	_	360	505	ps	Measured with 2 pF capacitive loading to GND, 20% to 80%, see Figure 4
			Jitter -	- 7.0 x 5.0	mm Pacl	kage
RMS Period Jitter <sup>[5]</sup>	T_jitt	-	1.0	1.6	ps	f = 100, 156.25 or 212.5 MHz, Vdd = 3.3 V or 2.5 V
RMS Phase Jitter (random)	T_phj	-	0.215	0.265	ps	f = 322.265625 MHz, Integration bandwidth = 12 kHz to 20 MHz, all Vdd levels, includes spurs. Temperature ranges -20 to 70°C and -40 to 85°C
		-	0.215	0.282	ps	f = 322.265625 MHz, Integration bandwidth = 12 kHz to 20 MHz, all Vdd levels, includes spurs. Temperature range ranges -40 to $95^{\circ}$ C and -40 to $105^{\circ}$ C
		_	0.1	-	ps	f = 322.265625 MHz, IEEE802.3-2005 10GbE jitter mask integration bandwidth = 1.875 MHz to 20 MHz, Includes spurs, all Vdd levels
		Jitter ·	– 5.0 x 3	3.2 and 3.	2 x 2.5 mr	n Packages
RMS Period Jitter <sup>[5]</sup>	T_jitt	-	1.0	1.6	ps	f = 100, 156.25 or 212.5 MHz, Vdd = 3.3 V or 2.5 V
RMS Phase Jitter (random)	T_phj	-	0.235	0.282	ps	$f=322.265625$ MHz, Integration bandwidth = 12 kHz to 20 MHz, all Vdd levels, includes spurs. Temperature ranges -20 to 70°C and -40 to $85^{\circ}\text{C}$
		-	0.235	0.305	ps	f = 322.265625 MHz, Integration bandwidth = 12 kHz to 20 MHz, all Vdd levels, includes spurs. Temperature ranges -40 to 95°C and -40 to 105°C
		_	0.1	-	ps	f = 322.265625 MHz, IEEE802.3-2005 10GbE jitter mask integration bandwidth = 1.875 MHz to 20 MHz, Includes spurs for all Vdd levels.

Note:

5. Measured according to JESD65B

#### **Table 6. Pin Description**

Pin	Мар		Functionality				
		Output Enable (OE)	H <sup>[6]</sup> : specified frequency output L: output is high impedance	OE/NC 1			
1	OE/NC	Non Connect (NC)	H or L or Open: No effect on output frequency or other device functions.	NC 2			
2	NC	NA	No Connect; Leave it floating or connect to GND for better heat dissipation				
3	GND	Power	VDD Power Supply Ground	GND 3			
4	OUT+	Output	Oscillator output				
5	OUT-	Output	Complementary oscillator output	Eiguro 2			
6	VDD	Power	Power supply voltage <sup>[7]</sup>	Figure 3			



#### 8. Pin Assignments

Notes:

 In OE mode, a pull-up resistor of 10 kΩ or less is recommended if pin 1 is not externally driven.
 A capacitor of value 0.1 μF or higher between VDD and GND is required. An additional 10 μF capacitor between VDD and GND is required for the best phase jitter performance.



#### **Table 7. Absolute Maximum Ratings**

**Caution**: Attempted operation outside the absolute maximum ratings may cause permanent damage to the part. Actual performance of the IC is only guaranteed within the operational specifications, not at absolute maximum ratings.

Parameter	Min.	Max.	Unit
Vdd	-0.5	4.0	V
VIH		Vdd + 0.3V	V
VIL	-0.3		V
Storage Temperature	-65	150	°C
Maximum Junction Temperature		130	°C
Soldering Temperature (follow standard Pb-free soldering guidelines)		260	°C

#### Table 8. Thermal Considerations<sup>[8]</sup>

Package	$ heta_{ extsf{JA}}$ , 4 Layer Board (°C/W)	$ heta_{ t Jc},  extbf{Bottom}$ (°C/W)
3225, 6-pin	80	30
5032, 6-pin	53	20
7050, 6-pin	52	19

Notes:

8. Refer to JESD51 for  $\theta_{JA}$  and  $\theta_{JC}$  definitions, and reference layout used to determine the  $\theta_{JA}$  and  $\theta_{JC}$  values in the above table.

#### Table 9. Maximum Operating Junction Temperature<sup>[9]</sup>

Max Operating Temperature (ambient)	Maximum Operating Junction Temperature
70°C	95°C
85°C	110°C
95°C	120°C
105°C	130°C

Notes:

9. Datasheet specifications are not guaranteed if junction temperature exceeds the maximum operating junction temperature.

#### **Table 10. Environmental Compliance**

Parameter	Test Conditions	Value	Unit
Mechanical Shock Resistance	MIL-STD-883F, Method 2002	10,000	g
Mechanical Vibration Resistance	MIL-STD-883F, Method 2007	70	g
Soldering Temperature (follow standard Pb free soldering guidelines)	MIL-STD-883F, Method 2003	260	°C
Moisture Sensitivity Level	MSL1 @ 260°C		
Electrostatic Discharge (HBM)	HBM, JESD22-A114	2,000	V
Charge-Device Model ESD Protection	JESD220C101	750	V
Latch-up Tolerance	JESD78	Compliant	



# **Waveform Diagrams**

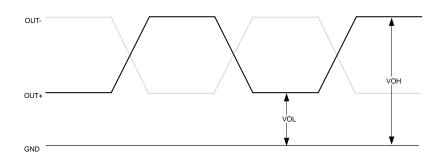


Figure 4. LVPECL, Low-swing LVPECL, and HCSL Voltage Levels per Differential Pin (i.e. OUT+, or OUT-)

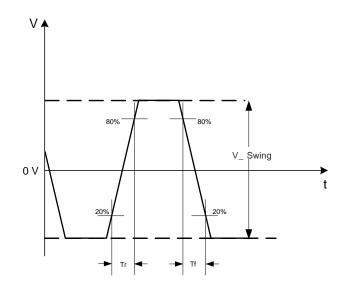
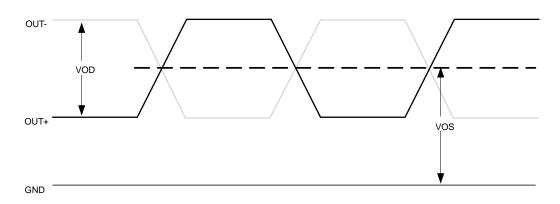


Figure 5. LVPECL, Low-swing LVPECL, and HCSL Voltage Levels Across Differential Pair (i.e. OUT+ minus OUT-)



### Waveform Diagrams (continued)





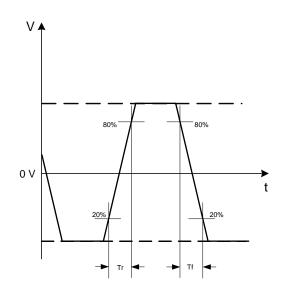


Figure 7. LVDS Differential Waveform (i.e. OUT+ minus OUT-)

# **Timing Diagrams**

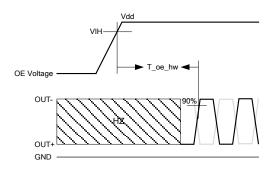
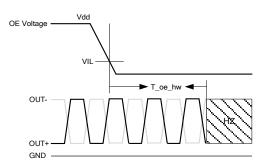
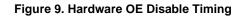


Figure 8. Hardware OE Enable Timing

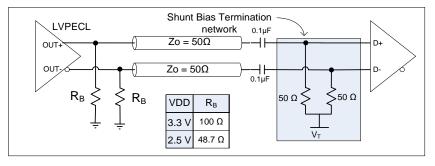






### **Termination Diagrams**

#### LVPECL and Low-swing LVPECL





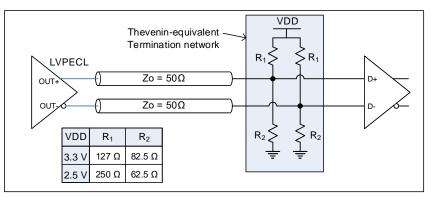


Figure 11. LVPECL and Low-swing LVPECL DC-coupled Load Termination with Thevenin Equivalent Network

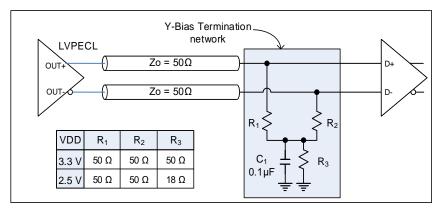
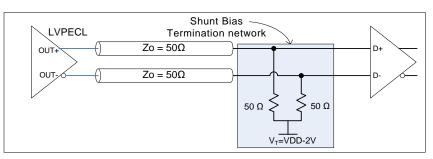
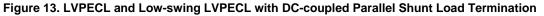


Figure 12. LVPECL and Low-swing LVPECL with Y-Bias Termination

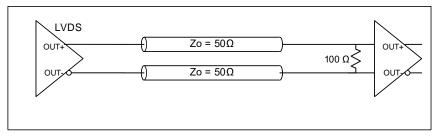






### **Termination Diagrams (continued)**

#### LVDS





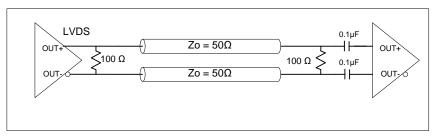


Figure 15. LVDS double AC Termination with Capacitor Close to the Load

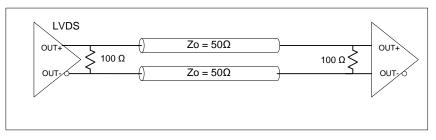


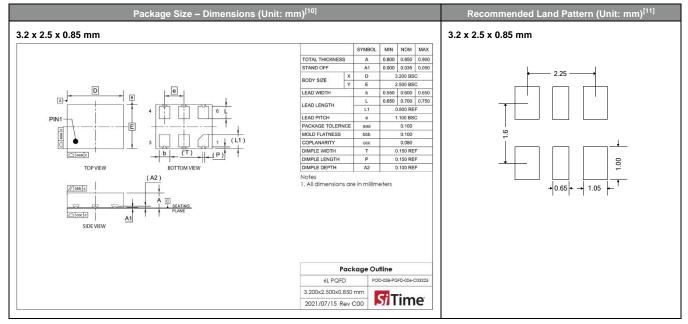
Figure 16. LVDS Double DC Termination

Figure 17. HCSL Interface Termination

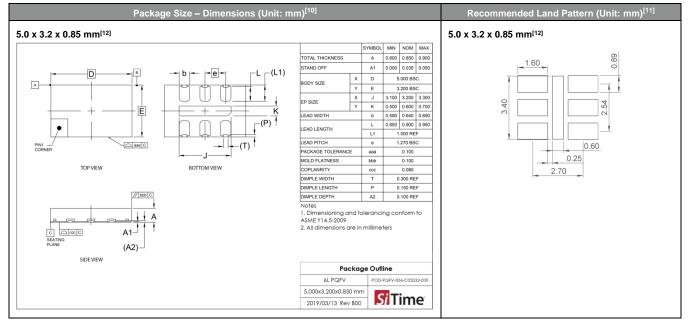
HCSL



### Dimensions and Patterns — 3.2 x 2.5 mm<sup>2</sup>



### Dimensions and Patterns — 5.0 x 3.2 mm<sup>2</sup>

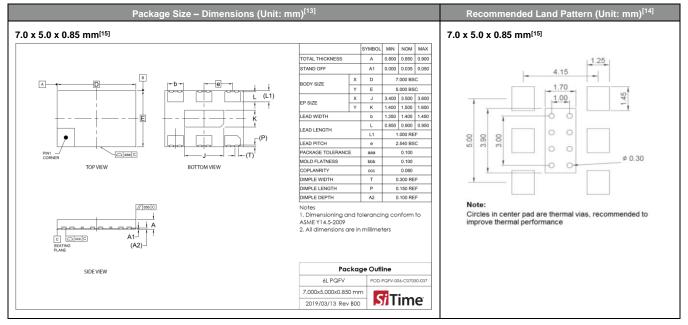


#### Notes:

- 10. 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.
- 11. A capacitor of value 0.1 µF or higher between VDD and GND is required. An additional 10 µF capacitor between VDD and GND is required for the best phase jitter performance.
- 12. The center pad has no electrical function. Soldering down the center pad to the GND is recommended for best thermal dissipation, but is optional.



### Dimensions and Patterns — 7.0 x 5.0 mm<sup>2</sup>



#### Notes:

13. 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.

- 14. A capacitor of value 0.1 µF or higher between VDD and GND is required. An additional 10 µF capacitor between VDD and GND is required for the best phase jitter performance.
- 15. The center pad has no electrical function. Soldering down the center pad to the GND is recommended for best thermal dissipation, but is optional.



# Additional Information

#### Table 11. Additional Information

Document	Description	Download Link
ECCN #: EAR99	Five character designation used on the commerce Control List (CCL) to identify dual use items for export control purposes.	—
HTS Classification Code: 8542.39.0000	A Harmonized Tariff Schedule (HTS) code developed by the World Customs Organization to classify/define internationally traded goods.	—
Part number Generator	Tool used to create the part number based on desired features.	https://www.sitime.com/part-number-generator
Manufacturing Notes	Tape & Reel dimension, reflow profile and other manufacturing related info	https://www.sitime.com/sites/default/files/gated/Manufacturing-Notes-for-SiTime-Products.pdf
Qualification Reports	RoHS report, reliability reports, composition reports	http://www.sitime.com/support/quality-and-reliability
Performance Reports	Additional performance data such as phase noise, current consumption and jitter for selected frequencies	http://www.sitime.com/support/performance-measurement-report
Termination Techniques	Termination design recommendations	http://www.sitime.com/support/application-notes
Layout Techniques	Layout recommendations	http://www.sitime.com/support/application-notes
Evaluation Boards	SiT6085/6EB rev. 3.0, SiT6085EB rev.3.1 and SiT6097EB rev. 2.0 Evaluation Boards for Differential Oscillators User Manual	https://www.sitime.com/support/user-guides



### **Revision History**

#### Table 12. Revision History

Revision	Release Date	Change Summary
1.0	21-Jul-2017	Initial draft
1.03		Corrected max frequency in ordering information table.
		Added 5.0 x 3.2 package.
		Added preliminary IPJ numbers for 5032 package. Will be updated after characterization.
		Corrected minor errors.
		Added Additional Information Table.
1.04	11-May-2018	Performed minor edits and updated Ordering Information.
1.05	25-Oct-2018	Removed "Contact SiTime" for ±10 ppm
1.06	17-Aug-2019	Updated package Dimensions Drawings Updated Table 8 Thermal Considerations for 5032 package Updated Table 2 specification for First Year Aging Added 5, 10, and 20 year aging specs Added Evaluation Boards SiT6085EB reference in Additional Information Rearranged layout, added Description, Block Diagram and TOC Tightened LVDS minimum VOD specification Added HTS code Added Iow-swing LVPECL package code and specifications
1.07	9-Mar-2021	Updated L1 and Dimple Width package dimensions for 3.2 x 2.5 mm package Updated trademarks, hyperlinks and changed rev table date format
1.71	15-Jul-2021	Updated pin direction in package dimensions for 3.2 x 2.5 mm package
1.72	1-Jan-2023	Updated company disclaimer, links, references and icons

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