

Ordering Information:



1 ps Max JITTER CRYSTAL OSCILLATOR (XO) (10 MHz to 810 MHz)

Features

- Available with any-frequency output frequencies from 10 to 810 MHz
- 3rd generation DSPLL[®] with superior jitter performance: 1 ps max jitter
- Better frequency stability than SAWbased oscillators
- Internal fundamental mode crystal ensures high reliability

Applications

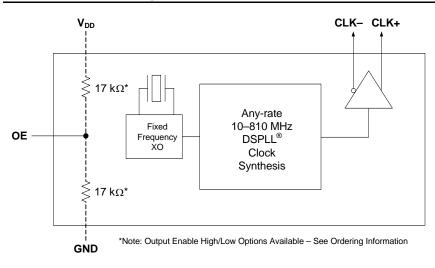
- SONET/SDH (OC-3/12/48)
- Networking
- SD/HD SDI/3G SDI video

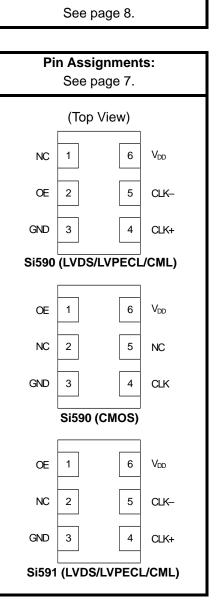
Description

- Test and measurement
- Storage
- FPGA/ASIC clock generation

The Si590/591 XO utilizes Skyworks Solutions' advanced DSPLL[®] circuitry to provide a low jitter clock at high frequencies. The Si590/591 supports any frequency from 10 to 810 MHz. Unlike a traditional XO, where a unique crystal is required for each output frequency, the Si590/591 uses one fixed crystal to provide a wide range of output frequencies. This IC based approach allows the crystal resonator to provide exceptional frequency stability and reliability. In addition, DSPLL clock synthesis provides superior supply noise rejection, simplifying the task of generating low jitter clocks in noisy environments typically found in communication systems. The Si590/591 IC based XO is factory configurable for a wide variety of user specifications including frequency, supply voltage, output format, and stability. Specific configurations are factory programmed at time of shipment, thereby eliminating long lead times associated with custom oscillators.

Functional Block Diagram





 Pb-free/RoHS-compliant
 -40 to +85 °C operating temperature range

3.2x5 mm packages

Available CMOS, LVPECL,

Industry Standard 5x7 and

3.3, 2.5, and 1.8 V supply options

LVDS, and CML outputs

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1. Electrical Specifications

Parameter	Symbol	Test Condition	Min	Тур	Max	Units
Supply Voltage ¹	V _{DD}	3.3 V option	2.97	3.3	3.63	
		2.5 V option	2.25	2.5	2.75	V
		1.8 V option	1.71	1.8	1.89	
Supply Current	I _{DD}	Output enabled				
		LVPECL	—	110	125	
		CML	—	100	110	
		LVDS	—	90	100	mA
		CMOS	—	80	90	
		Tristate mode	—	60	75	
Output Enable (OE) ²		V _{IH}	0.75 x V _{DD}		_	V
		V _{IL}	—	_	0.5	v
Operating Temperature Range	T _A		-40	_	85	°C
Notes:					•	

Table 1. Recommended Operating Conditions

tes:

1. Selectable parameter specified by part number. See Section 3. "Ordering Information" on page 8 for further details.

2. OE pin includes an internal 17 k Ω pullup resistor to V_{DD} for output enable active high or a 17 k Ω pull-down resistor to

GND for output enable active low. See 3. "Ordering Information" on page 8.

Table 2. CLK± Output Frequency Characteristics

Parameter	Symbol	Test Condition	Min	Тур	Max	Units
Nominal Frequency ^{1,2}	f _O	LVPECL/LVDS/CML	10		810	MHz
		CMOS	10		160	
Initial Accuracy	f _i	Measured at +25 °C at time of shipping	_	±1.5	_	ppm
Total Stability		Note 3, second option code "D"			±20	ppm
		Note 3, second option code "C"			±30	ppm
		Note 4, second option code "B"			±50	ppm
		Note 4, second option code "A"			±100	ppm
Temperature Stability		second option code "D"			±7	ppm
		second option code "C"	_		±20	ppm
		second option code "B"	_		±25	ppm
		second option code "A"		_	±50	ppm
Powerup Time ⁵	t _{OSC}				10	ms

Notes:

- 1. See Section 3. "Ordering Information" on page 8 for further details.
- 2. Specified at time of order by part number.
- 3. Includes initial accuracy, temperature, shock, vibration, power supply and load drift, and 10 years aging at 40 °C. See 3. "Ordering Information" on page 8.
- 4. Includes initial accuracy, temperature, shock, vibration, power supply and load drift, and 15 years aging at 70 °C. See 3. "Ordering Information" on page 8.
- 5. Time from powerup or tristate mode to f_O.

Table 3. CLK± Output Levels and Symmetry

Parameter	Symbol	Test Condition	Min	Тур	Max	Units	
LVPECL Output Option ¹	V _O	mid-level	V _{DD} - 1.42	_	V _{DD} – 1.25	V	
	V _{OD}	swing (diff)	1.1	—	1.9	V _{PP}	
	V _{SE}	swing (single-ended)	0.55	—	0.95	V _{PP}	
LVDS Output Option ²	Vo	mid-level	1.125	1.20	1.275	V	
	V _{OD}	swing (diff)	0.5	0.7	0.9	V _{PP}	
	V	2.5/3.3 V option mid-level	—	V _{DD} – 1.30	—	V	
	Vo	1.8 V option mid-level	_	V _{DD} - 0.36	_	V	
CML Output Option ²		2.5/3.3 V option swing (diff)	1.10	1.50	1.90	V _{PP}	
	V _{OD}	1.8 V option swing (diff)	0.35	0.425	0.50		
CMOS Output Option ³	V _{OH}		0.8 x V _{DD}	—	V _{DD}	V	
	V _{OL}		_	—	0.4	v	
Rise/Fall time (20/80%)	t _{R,} t _F	LVPECL/LVDS/CML			350	ps	
		CMOS with $C_L = 15 \text{ pF}$		2		ns	
Symmetry (duty cycle)	SYM	$\begin{array}{llllllllllllllllllllllllllllllllllll$	45	_	55	%	
Notes: 1. 50 Ω to V _{DD} – 2.0 V. 2. B ₁ = 100 Ω (difference)	-			1	1		

2. $R_{term} = 100 \Omega$ (differential).

3. $C_L = 15$ pF. Sinking or sourcing 12 mA for $V_{DD} = 3.3$ V, 6 mA for $V_{DD} = 2.5$ V, 3 mA for $V_{DD} = 1.8$ V.

Table 4. CLK± Output Phase Jitter

Parameter	Symbol	Test Condition	Min	Тур	Max	Units
Phase Jitter (RMS) ¹ for 50 MHz ≤ F _{OUT} ≤ 810 MHz (LVPECL/LVDS/CML)	фј	12 kHz to 20 MHz	_	0.5	1.0	ps
Phase Jitter (RMS) ¹ (LVPECL/LVDS/CML)	фј	12 kHz to 20 MHz, 155.52 MHz output frequency	_	0.4	0.7	ps
Phase Jitter (RMS) ² for 50 MHz <u>≤</u> F _{OUT} <u>≤</u> 160 MHz (CMOS)	фј	12 kHz to 20 MHz	_	0.6	1.0	ps

Notes:

1. Refer to AN256 for further information.

2. Single-ended CMOS output phase jitter measured using 33 Ω series termination into 50 Ω phase noise test equipment. 3.3 V supply voltage option only.

Table 5. CLK± Output Period Jitter

Parameter	Symbol	Test Condition	Min	Тур	Max	Units		
Period Jitter*	J _{PER}	RMS	_	_	3	ps		
		Peak-to-Peak	_	_	35			
*Note: Any output mode, including CMOS, LVPECL, LVDS, CML. N = 1000 cycles. Refer to AN279 for further information.								

Table 6. Environmental Compliance and Package Information

Parameter	Conditions/Test Method
Mechanical Shock	MIL-STD-883, Method 2002
Mechanical Vibration	MIL-STD-883, Method 2007
Solderability	MIL-STD-883, Method 2003
Gross and Fine Leak	MIL-STD-883, Method 1014
Resistance to Solder Heat	MIL-STD-883, Method 2036
Contact Pads	Gold over Nickel

Table 7. Thermal Characteristics

(Typical values $T_A = 25 \text{ }^{\circ}\text{C}$, $V_{DD} = 3.3 \text{ V}$)

Parameter	Symbol	Test Condition	Min	Тур	Max	Unit
5x7mm, Thermal Resistance Junction to Ambient	θ_{JA}	Still Air	—	84.6	_	°C/W
5x7mm, Thermal Resistance Junction to Case	θJC	Still Air	—	38.8	_	°C/W
3.2x5mm, Thermal Resistance Junction to Ambient	θ_{JA}	Still Air	—	31.1	—	°C/W
3.2x5mm, Thermal Resistance Junction to Case	θJC	Still Air	—	13.3	—	°C/W
Ambient Temperature	Τ _Α		-40	—	85	°C
Junction Temperature	Т _Ј		—	—	125	°C

Table 8. Absolute Maximum Ratings¹

Symbol	Rating	Units
T _{AMAX}	85	°C
V _{DD}	-0.5 to +1.9	V
V _{DD}	-0.5 to +3.8	V
VI	–0.5 to V _{DD} + 0.3	V
Τ _S	-55 to +125	٥C
ESD	2500	V
T _{PEAK}	260	٥C
t _P	20–40	seconds
	T _{AMAX} V _{DD} V _{DD} V _I T _S ESD T _{PEAK}	T_{AMAX} 85 V_{DD} -0.5 to +1.9 V_{DD} -0.5 to +3.8 V_1 -0.5 to V_{DD} + 0.3 T_S -55 to +125 ESD 2500 T_{PEAK} 260

Notes:

1. Stresses beyond those listed in Absolute Maximum Ratings may cause permanent damage to the device. Functional operation or specification compliance is not implied at these conditions. Exposure to maximum rating conditions for extended periods may affect device reliability.

2. The device is compliant with JEDEC J-STD-020C. Refer to Si5xx Packaging FAQ available at https://www.skyworksinc.com/Product_Certificate.aspx for further information, including soldering profiles.

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2. Pin Descriptions

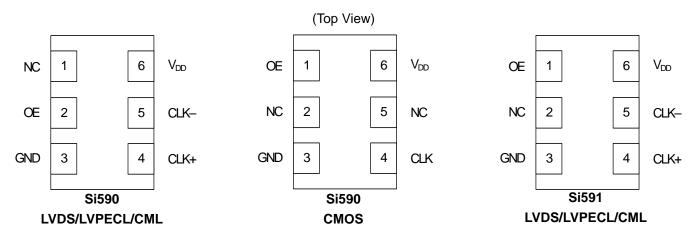


Table 9. Pinout for Si590 Series

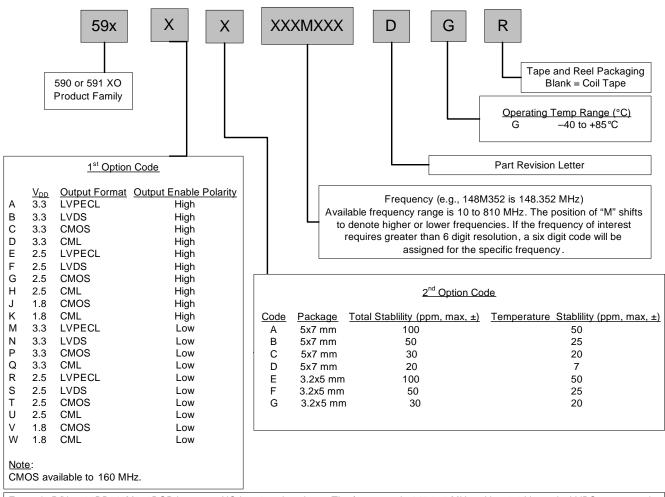
Pin	Symbol	LVDS/LVPECL/CML Function	CMOS Function
1	OE*	No connection Make no external connection to this pin	Output enable
2	OE*	Output enable	No connection Make no external connection to this pin
3	GND	Electrical and Case Ground	Electrical and Case Ground
4	CLK+	Oscillator Output	Oscillator Output
5	CLK-	Complementary Output	No connection Make no external connection to this pin
6	V _{DD}	Power Supply Voltage	Power Supply Voltage
Note		es an internal 17 k Ω pullup resistor to V _{DD} for output it enable active low. See 3. "Ordering Information" or	

Table 10. Pinout for Si591 Series

Pin	Symbol	LVDS/LVPECL/CML Function				
1	OE*	Output enable				
2	No connection Make no external connection to this pin	No connection Make no external connection to this pin				
3	GND	Electrical and Case Ground				
4	CLK+	Oscillator Output				
5	5 CLK– Complementary output					
6	V _{DD}	Power Supply Voltage				
*Note: OE pin includes an internal 17 kΩ pullup resistor to V _{DD} for output enable active high or a 17 kΩ pulldown resistor to GND for output enable active low. See 3. "Ordering Information" on page 8.						

3. Ordering Information

The Si590/591 XO supports a variety of options including frequency, temperature stability, output format, and V_{DD}. Specific device configurations are programmed into the Si590/591 at time of shipment. Configurations can be specified using the Part Number Configuration chart below. Skyworks Solutions provides a web browser-based part number configuration utility to simplify this process. To access this tool refer to https://www.skywork-sinc.com/en/Products/Timing. The Si590 and Si591 XO series are supplied in an industry-standard, RoHS compliant, 6-pad, 5×7 mm and 3.2×5 mm packages. The Si591 Series supports an alternate OE pinout (pin #1) for LVPECL, LVDS, and CML output formats. See Tables 9 and 10 for the pinout differences between the Si590 and Si591 series.



Example P/N: 590BB148M352DGR is a 5 x 7 XO in a 6 pad package. The frequency is 148.352 MHz, with a 3.3 V supply, LVDS output, and Output Enable active high polarity. Overall stability is specified as \pm 50 ppm. The device is specified for -40 to +85 °C ambient temperature range operation and is shipped in tape and reel format.

Figure 1. Part Number Convention

4. Package Outline Drawing: 5 x 7 mm, 6-pin

Figure 2 illustrates the package details for the 5×7 mm Si590/591. Table 11 lists the values for the dimensions shown in the illustration.

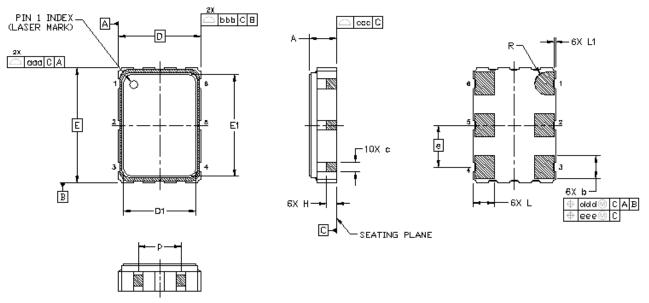




Table 11. Package Diagram Dimensions (mm)

Dimension	Min	Nom	Мах			
A	1.50	1.65	1.80			
b	1.30	1.40	1.50			
С	0.50	0.60	0.70			
D		5.00 BSC				
D1	4.30	4.40	4.50			
е		2.54 BSC				
E		7.00 BSC				
E1	6.10	6.20	6.30			
Н	0.55	0.65	0.75			
L	1.17	1.27	1.37			
L1	0.05	0.10	0.15			
р	1.80		2.60			
R		0.70 REF				
aaa		0.15				
bbb	0.15					
ССС	0.10					
ddd	0.10					
eee		0.05				

5. PCB Land Pattern: 5 x 7 mm, 6-pin

Figure 3 illustrates the 6-pin PCB land pattern for the 5×7 mm Si590/591. Table 12 lists the values for the dimensions shown in the illustration.

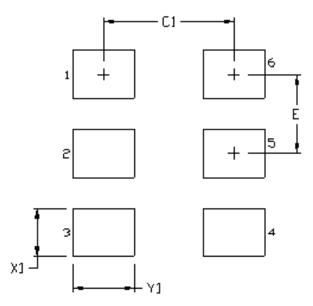


Figure 3. Si590/591 PCB Land Pattern

Table 12. P	CB Land	Pattern	Dimensions	(mm)
-------------	---------	---------	------------	------

	Dimension	(mm)		
	C1	4.20		
	E	2.54		
	X1	1.55		
	Y1	1.95		
Notes Gener				
2. 3. 4.		the ANSI Y14.5M-1994 specification.		
	All metal pads are to be non-solder m	nask defined (NSMD). Clearance between to be 60 μm minimum, all the way around		
Stenc	il Design			
	should be used to assure good solde			
	The stencil thickness should be 0.12			
	The ratio of stencil aperture to land p	ad size should be 1:1.		
	Assembly			
	A No-Clean, Type-3 solder paste is re			
2.	The recommended card reflow profile specification for Small Body Compon	•		

6. Package Outline Drawing: 3.2 x 5 mm, 6-pin

Figure illustrates the package details for the 3.2 x 5 mm Si590/591. Table 13 lists the values for the dimensions shown in the illustration.

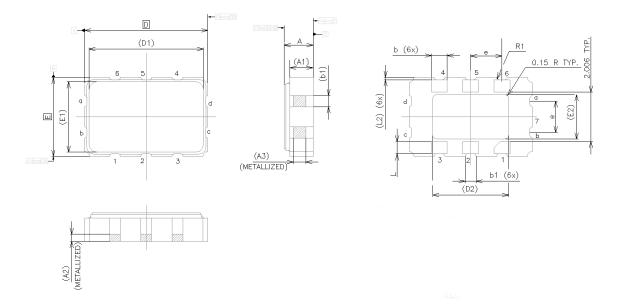


Figure 4. Si590/591 Outline Diagram

Dimension	Min	Nom	Max	Dimension	Min	Nom	Max
А	1.02	1.17	1.32	E1		2.85 BSC	
A1	0.99	1.10	1.21	E2		1.91 BSC	
A2		0.5 BSC		L	0.35	0.45	0.55
A3		0.30 BSC		L2	0.05	0.10	0.15
b	0.54	0.64	0.74	R1	0.10 REF		
B1	0.35	0.45	0.55	aaa		0.15	
D		5.00 BSC		bbb		0.15	
D1	4.65 BSC		CCC		0.08		
D2	3.38 BSC		ddd	0.10			
е		1.27 BSC		eee		0.05	
E		3.20 BSC					

1. All dimensions shown are in millimeters (mm) unless otherwise noted.

2. Dimensioning and Tolerancing per ANSI Y14.5M-1994.

7. PCB Land Pattern: 3.2 x 5 mm, 6-pin

Figure 5 illustrates the 6-pin PCB land pattern for the 3.2 x 5 mm Si590/591. Table 14 lists the values for the dimensions shown in the illustration.

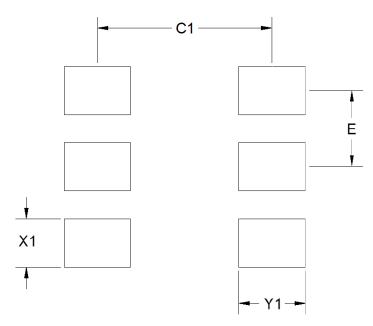


Figure 5. Si590/591 PCB Land Pattern

Table 14. PCB Land Pattern Dimensions (mm)

Dimension	(mm)	
C1	2.91	
E	1.27	
X1	0.80	
Y1	1.10	
Notes: General		
 All dimensions shown are in millimeters (m Dimensioning and Tolerancing is per the A This Land Pattern Design is based on the I All dimensions shown are at Maximum Ma (LMC) is calculated based on a Fabrication Solder Mask Design 	NSI Y14.5M-1994 specification. IPC-7351 guidelines. terial Condition (MMC). Least Material Condition	
0	defined (NSMD). Clearance between the solder nimum, all the way around the pad.	
-	shed stencil with trapezoidal walls should be used (5 mils).	
3. The ratio of stencil aperture to land pad size should be 1:1.		

Card Assembly

- **1.** A No-Clean, Type-3 solder paste is recommended.
- The recommended card reflow profile is per the JEDEC/IPC J-STD-020C specification for Small Body Components.

8. Si590/Si591 Top Marking: 5 x 7 mm

Figure 6 illustrates the mark specification for the 5 x 7 mm Si590/Si591. Table 15 lists the line information.

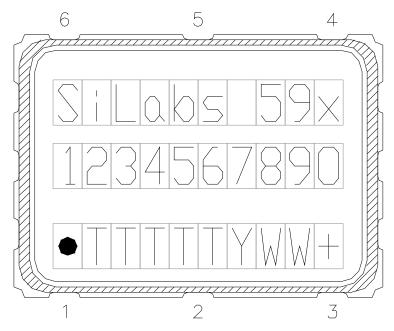


Figure 6. Top Mark Specification

Table 15. Si59x Top Mark Description

Line	Position	Description		
1	1–10	"SiLabs"+ Part Family Number, 59x (First 3 characters in part number where $x = 0$ indicates a 590 device and $x = 1$ indicates a 591 device)		
2	1–10	Si590, Si591: Option1 + Option2 + Freq(7) + Temp Si590/Si591 w/ 8-digit resolution: Option1 + Option2 + ConfigNum(6) + Temp		
3	Trace Code			
	Position 1	Pin 1 orientation mark (dot)		
	Position 2	Product Revision (D)		
	Position 3–6	Tiny Trace Code (4 alphanumeric characters per assembly release instructions)		
	Position 7	Year (least significant year digit), to be assigned by assembly site (ex: 2009 = 9)		
	Position 8–9	Calendar Work Week number (1–53), to be assigned by assembly site		
	Position 10	"+" to indicate Pb-Free and RoHS-compliant		

9. Si590/Si591 Top Marking: 3.2 x 5 mm

Figure 7 illustrates the mark specification for the 3.2 x 5 mm Si590/Si591. Table 16 lists the line information.

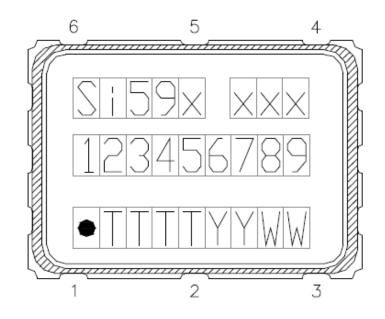


Figure 7. Top Mark Specification

Table 16. Si59x Top Mark Description

Line	Position	Description
1	1–5	"Si"+ Part Family Number, 59x (First 3 characters in part number where $x = 0$ indicates a 590 device and $x = 1$ indicates a 591 device)
	6–8	Crystal trace code (3 alphanumeric characters assigned by assembly site)
2	1–9	Si590, Si591: Option1 + Option2 + Freq(7) Si590/Si591 w/ 8-digit resolution: Option1 + Option2 + ConfigNum(6)
3	Trace Code	
	Position 1	Pin 1 orientation mark (dot)
	Position 2	Product Revision (D)
	Position 3–5	Tiny Trace Code (3 alphanumeric characters per assembly release instructions)
	Position 6–7	Year (last two digits of year), to be assigned by assembly site (ex: 20017 = 17)
	Position 8–9	Calendar Work Week number (1–53), to be assigned by assembly site

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REVISION HISTORY

Revision 1.2

June, 2018

 Changed "Trays" to "Coil Tape" in 3. "Ordering Information" on page 8.

Revision 1.1

December, 2017

Added 3.2 x 5 mm package.

Revision 1.0

- Updated 2.5 V/3.3 V and 1.8 V CML output level specifications in Table 3 on page 4.
- Updated Si590/591 devices to support frequencies up to 810 MHz for LVPECL, LVDS, and CML outputs.
- Separated 1.8 V, 2.5 V/3.3 V supply voltage. specifications for CML output in Table 3 on page 4.
- Updated Note 1 of Table 4 on page 4 to refer to AN256.
- Updated Table 4 on page 4.
 - Updated phase jitter specification.
- Updated Table 6 on page 5 to include the "Moisture Sensitivity Level" and "Contact Pads" rows.
- Updated Figure 3 and Table 15 on page 13 to reflect specific marking information.
- Added Table 7, "Thermal Characteristics," on page 5.
- Rearranged sections to conform to new quality standard.

Revision 0.4

 Added ±7 ppm temperature stability ordering option in Table 4 on page 4 and Figure 1 on page 8.

Revision 0.3

- Updated Table 4 on page 4 by adding the 155.51 MHz "Phase Jitter (RMS) (LVPECL/LVDS/CML)" row.
- Updated and clarified Table 6 on page 5 to correct typos and include the "Moisture Sensitivity Level" and "Contact Pads" rows.
- Corrected BSC value in rows D and E in Table 11 on page 9.

Revision 0.25

- Total Stability Maximum changed to ±30 in Table 2 on page 3.
- Total Stability Maximum changed to ±30 in Figure 1 on page 8.

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<u>590CA113M000DG</u> <u>590CA27M5000DG</u> <u>590PA40M0000DG</u> <u>590CC32M8200DG</u> <u>591SC75M0000DG</u>
<u>590CA12M0000DG</u> <u>590CC26M0000DG</u> <u>590AC100M000DG</u> <u>590CA50M0000DG</u> <u>590DA435M350DG</u>
590BB125M000DG 591BD250M000DG 591BB100M000DG 591BB212M500DG 591FA000274DG
<u>590BB148M350DG</u> <u>591SA314M500DG</u> <u>590FA350M000DG</u> <u>590BD125M000DG</u> <u>591FC200M000DG</u>
<u>591KC125M000DG</u> <u>591DD417M000DG</u> <u>591BB360M000DG</u> <u>591BB155M520DG</u> <u>591BC125M000DG</u>
<u>591BC125M000DGR</u> <u>591BB148M350DG</u> <u>590BB600M000DG</u> <u>590BB300M000DG</u> <u>590AB27M0000DG</u>
591FB100M000DG 591BD148M500DG 590CD11M2896DG 590PD24M9981DG 591MB10M0000DG
<u>590WB50M0000DG</u> <u>590BC296M703DG</u> <u>591BD210M000DG</u> <u>591AC50M0000DG</u> <u>590BD296M704DG</u>
<u>590CC128M000DG</u> <u>590CD80M0000DG</u> <u>590BC297M000DG</u> <u>591BD122M880DG</u> <u>591DD25M0000DG</u>
590CD98M3040DG 591SA312M500DG 591FA135M000DG 590AD433M920DG 590FD125M000DG
590JD48M0000DG 591AD74M1758DG 591BD500M000DG 590CB90M3168DG 591BD125M000DG
<u>590CD70M6560DG</u> <u>590BD297M000DG</u> <u>591BD435M000DG</u> <u>591AD74M2500DG</u> <u>590BB148M500DG</u>
590BB122M880DG 590CD22M5792DG 590CD10M0000DG 590CD24M9981DG 590DA145M825DG
590BD500M000DG 590BD360M000DG 591BD322M266DG 591AD25M0000DG 591EB000106DG
591FB85M0000DG 590CD27M0000DG 591BD155M520DG 590AA306M250DG 591BB300M000DG
590AD280M000DG 590BC40M0000DG 590KA800M000DG 591BB125M000DG 590JB140M000DG
<u>591BD200M000DG</u> <u>590SB25M0000DG</u> <u>591BA100M000DG</u> <u>590AC10M0000DG</u> <u>590CC20M0000DG</u>