74ALVT162245

16-bit transceiver with 30 Ω termination resistors; 3-state

Rev. 4 — 3 February 2021

Product data sheet

1. General description

The 74ALVT162245 is a 16-bit transceiver with 30 Ω termination resistors and 3-state outputs. The device can be used as two 8-bit transceivers or one 16-bit transceiver. The device features two output enables (1 \overline{OE} and 2 \overline{OE}) each controlling eight outputs, and two send/receive (1DIR and 2DIR) inputs for direction control. A HIGH on n \overline{OE} causes the outputs to assume a high-impedance OFF-state.

2. Features and benefits

- · 16-bit bidirectional bus interface
- 3-State buffers
- · Wide supply voltage range from 2.3 to 3.6 V
- 5V I/O compatible
- Overvoltage tolerant inputs to 5.5 V
- Output capability: +12 mA/–12 mA
- Direct interface with TTL levels
- Input and output interface capability to systems at 5 V supply
- BiCMOS high speed and output drive
- Bus-hold data inputs eliminate the need for external pull-up resistors to hold unused inputs
- Live insertion/extraction permitted
- Outputs include series resistance of 30 Ω making external termination resistors unnecessary
- I_{OFF} circuitry provides partial Power-down mode operation
- Power-up 3-State
- · No bus current loading when output is tied to 5 V bus
- Latch-up performance exceeds 500 mA per JESD 78 Class II Level B
- ESD protection:
 - MIL STD 883 method 3015: exceeds 2000 V
 - MM: exceeds 200 V
- Specified from -40 °C to +85 °C

3. Ordering information

Table 1. Ordering information

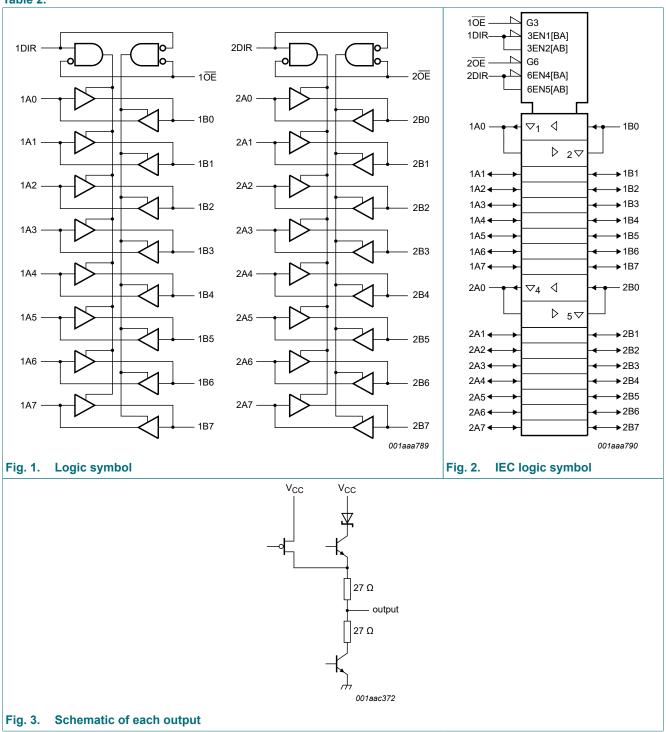
Type number	Package							
	Temperature range	Name	Description	Version				
74ALVT162245DGG	-40 °C to +85 °C	TSSOP48	plastic thin shrink small outline package; 48 leads; body width 6.1 mm	SOT362-1				



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4. Functional diagram

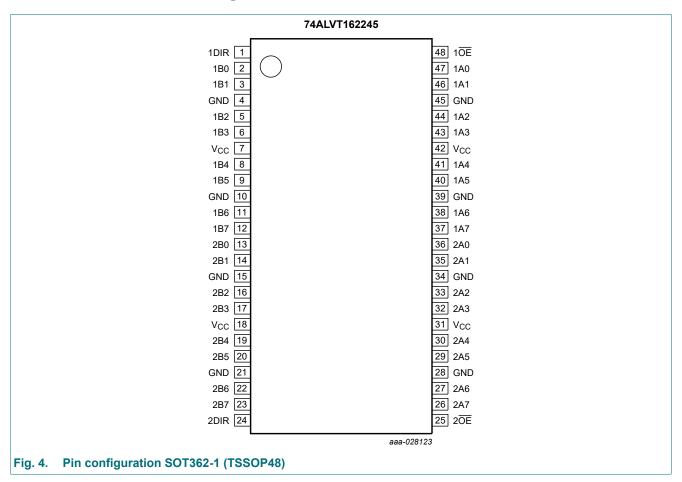
Table 2.



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5. Pinning information

5.1. Pinning



5.2. Pin description

Table 3. Pin description

Table of the accompany							
Symbol	Pin	Description					
1DIR, 2DIR	1, 24	direction control input					
1A0, 1A1, 1A2, 1A3, 1A4, 1A5, 1A6, 1A7	47, 46, 44, 43, 41, 40, 38, 37	data input/output					
2A0, 2A1, 2A2, 2A3, 2A4, 2A5, 2A6, 2A7	36, 35, 33, 32, 30, 29, 27, 26	data input/output					
GND	4, 10, 15, 21, 28, 34, 39, 45	ground (0 V)					
1B0, 1B1, 1B2, 1B3, 1B4, 1B5, 1B6, 1B7	2, 3, 5, 6, 8, 9, 11, 12	data input/output					
2B0, 2B1, 2B2, 2B3, 2B4, 2B5, 2B6, 2B7	13, 14, 16, 17, 19, 20, 22, 23	data input/output					
10E, 20E	48, 25	output enable input (active-LOW)					
V _{CC}	7, 18, 31, 42	supply voltage					

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6. Functional description

Table 4. Function table

 $H = HIGH \text{ voltage level}; L = LOW \text{ voltage level}; X = don't care; Z = high-impedance OFF-state.}$

		Input/output		
n OE nDIR		nAn	nBn	
L	L	output nAn = nBn	input	
L	Н	input	output nBn = nAn	
Н	X	Z	Z	

7. Limiting values

Table 5. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134). Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	Min	Max	Unit
V _{CC}	supply voltage		-0.5	+4.6	V
VI	input voltage	[1]	-0.5	+7.0	V
Vo	output voltage	output in OFF-state or HIGH-state [1]	-0.5	+7.0	V
I _{IK}	input clamping current	V _I < 0 V	-50	-	mA
I _{OK}	output clamping current	V _O < 0 V	-50	-	mA
Io	output current	output in LOW-state	-	128	mA
		output in HIGH-state	-64	-	mA
T _{stg}	storage temperature		-65	+150	°C
Tj	junction temperature	[2]	-	+150	°C

^[1] The input and output negative voltage ratings may be exceeded if the input and output clamp current ratings are observed.

8. Recommended operating conditions

Table 6. Recommended operating conditions

Symbol	Parameter	Conditions	$V_{CC} = 2.5 V \pm 0.2 V$		$V_{CC} = 3.3$	Unit	
			Min	Max	Min	Max	
V _{CC}	supply voltage		2.3	2.7	3.0	3.6	V
VI	input voltage		0	5.5	0	5.5	V
I _{OH}	HIGH-level output current		-	-8	-	-12	mA
I _{OL}	LOW-level output current		-	12	-	12	mA
Δt/ΔV	input transition rise and fall rate	outputs enabled	-	10	-	10	ns/V
T _{amb}	ambient temperature	free-air	-40	+85	-40	+85	°C

^[2] The performance capability of a high-performance integrated circuit in conjunction with its thermal environment can create junction temperatures which are detrimental to reliability.

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9. Static characteristics

Table 7. Static characteristics

At recommended operating conditions; T_{amb} = -40 °C to +85 °C; voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions		Min	Typ[1]	Max	Unit
V _{CC} = 2.5	5 V ± 0.2 V						
V _{IK}	input clamping voltage	V _{CC} = 2.3 V; I _{IK} = -18 mA		-	-0.85	-1.2	V
V _{IH}	HIGH-level input voltage	V _{CC} = 2.5 V ± 0.2 V		1.7	-	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 2.5 V ± 0.2 V		-	-	0.7	V
V _{OH}	HIGH-level output voltage	V _{CC} = 2.3 V; I _O = -8 mA		1.7	-	-	V
V _{OL}	LOW-level output voltage	V _{CC} = 2.3 V; I _O = 12 mA		-	0.6	0.7	V
I _I	input leakage current	all input pins	[2]				
		V _{CC} = 0 V or 2.7 V; V _I = 5.5 V		-	0.1	10	μΑ
		control pins					
		V_{CC} = 2.7 V; V_I = V_{CC} or GND		-	0.1	±1	μA
		I/O data pins	[2]				
		V _{CC} = 2.7 V; V _I = V _{CC}		-	0.1	1	μA
		V _{CC} = 2.7 V; V _I = 0 V		-	0.1	-5	μΑ
I _{OFF}	power-off leakage current	$V_{CC} = 0 \text{ V}; V_{I} \text{ or } V_{O} = 0 \text{ V to } 4.5 \text{ V}$		-	0.1	±100	μΑ
I _{BHL}	bus hold LOW current	data inputs; V _{CC} = 2.3 V; V _I = 0.7 V	[3]	-	90	-	μA
I _{BHH}	bus hold HIGH current	data inputs; V _{CC} = 2.3 V; V _I = 1.7 V	[3]	-	-75	-	μA
I _{EX}	external current	output in HIGH-state when $V_O > V_{CC}$; $V_O = 5.5 \text{ V}$; $V_{CC} = 2.3 \text{ V}$		-	20	125	μΑ
I _{O(pu/pd)}	power-up/power-down output current	$V_{CC} \le 1.2 \text{ V}; V_O = 0.5 \text{ V to } V_{CC};$ $V_I = \text{GND or } V_{CC}; \text{n} \overline{\text{OE}} = \text{don't care}$	[4]	-	40	100	μΑ
Icc	supply current	V_{CC} = 2.7 V; V_I = GND or V_{CC} ; I_O = 0 A					
		outputs HIGH		-	0.04	0.1	mA
		outputs LOW		-	2.5	4.5	mA
		outputs disabled	[5]	-	0.04	0.1	mA
ΔI _{CC}	additional supply current	per input pin; V_{CC} = 2.3 V to 2.7 V; one input at V_{CC} - 0.6 V; other inputs at V_{CC} or GND	[6]	-	0.05	0.4	mA
Cı	input capacitance	nDIR and \overline{OE} ; $V_I = 0 \text{ V or } V_{CC}$		-	3	-	pF
C _{I/O}	input/output capacitance	V _{I/O} = 0 V or V _{CC}		-	9	-	pF

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Symbol	Parameter	Conditions		Min	Typ[1]	Max	Unit
$V_{CC} = 3.3$	V ± 0.3 V						
V _{IK}	input clamping voltage	V _{CC} = 3.0 V; I _{IK} = -18 mA		-	-0.85	-1.2	V
V _{IH}	HIGH-level input voltage	V _{CC} = 3.3 V ± 0.3 V		2.0	-	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 3.3 V ± 0.3 V		-	-	0.8	V
V _{OH}	HIGH-level output voltage	V _{CC} = 3.0 V; I _O = -12 mA		2.0	2.3	-	V
V _{OL}	LOW-level output voltage	V _{CC} = 3.0 V; I _O = 12 mA		-	0.6	0.8	V
I _I	input leakage current	all input pins	[2]				
		V _{CC} = 0 V or 3.6 V; V _I = 5.5 V		-	0.1	10	μΑ
		control pins					
		$V_{CC} = 3.6 \text{ V}; V_{I} = V_{CC} \text{ or GND}$		-	0.1	±1	μΑ
		I/O data pins	[2]				
		V _{CC} = 3.6 V; V _I = V _{CC}		-	0.5	1	μΑ
		V _{CC} = 3.6 V; V _I = 0 V		-	0.1	-5	μA
I _{OFF}	power-off leakage current	$V_{CC} = 0 \text{ V}; V_{I} \text{ or } V_{O} = 0 \text{ V to } 4.5 \text{ V}$		-	0.1	±100	μΑ
I _{BHL}	bus hold LOW current	data inputs; V _{CC} = 3 V; V _I = 0.8 V		75	130	-	μA
I _{BHH}	bus hold HIGH current	data inputs; V _{CC} = 3 V; V _I = 2.0 V		-75	-140	-	μΑ
I _{BHLO}	bus hold LOW overdrive current	data inputs; V _{CC} = 3.6 V; V _I = 0 V to 3.6 V	[7]	500	-	-	μΑ
I _{BHHO}	bus hold HIGH overdrive current	data inputs; V_{CC} = 3.6 V; V_I = 0 V to 3.6 V	[7]	-500	-	-	μA
I _{EX}	external current	output in HIGH-state when $V_O > V_{CC}$; $V_O = 5.5 \text{ V}$; $V_{CC} = 3.0 \text{ V}$		-	50	125	μA
I _{O(pu/pd)}	power-up/power-down output current	$V_{CC} \le 1.2 \text{ V}; V_O = 0.5 \text{ V to } V_{CC};$ $V_I = \text{GND or } V_{CC}; \text{ n} \overline{\text{OE}} = \text{don't care}$	[8]	-	40	±100	μA
I _{CC}	supply current	V_{CC} = 3.6 V; V_I = GND or V_{CC} ; I_O = 0 A					
		outputs HIGH		-	0.07	0.1	mA
		outputs LOW		-	3.5	5	mA
		outputs disabled	[5]	-	0.07	0.1	mA
ΔI _{CC}	additional supply current	per input pin; V_{CC} = 3 V to 3.6 V; one input at V_{CC} - 0.6 V; other inputs at V_{CC} or GND	[6]	-	0.04	0.4	mA
Cı	input capacitance	nDIR and $n\overline{OE}$; $V_I = 0 \text{ V or } V_{CC}$		-	3	-	pF
C _{I/O}	input/output capacitance	V _{I/O} = 0 V or V _{CC}		-	9	-	pF

^[1] Typical values for V_{CC} = 2.3 V to 2.7 V are measured at V_{CC} = 2.5 V and T_{amb} = 25 °C. Typical values for V_{CC} = 3.0 V to 3.6 V are measured at V_{CC} = 3.3 V and T_{amb} = 25 °C.

From V_{CC} = 1.2 V to V_{CC} = 2.5 V ± 0.2 V a transition time of 100 μ s is permitted. This parameter is valid for T_{amb} = 25 °C only.

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^[2] Unused pins at V_{CC} or GND.

^[3] Not guaranteed.

^[4] This parameter is valid for any V_{CC} between 0 V and 1.2 V with a transition time of up to 10 ms.

^[5] I_{CC} with outputs disabled is measured with outputs pulled to V_{CC} or GND.

^[6] This is the increase in supply current for each input at the specified voltage level other than V_{CC} or GND.

This is the bus hold overdrive current required to force the input to the opposite logic state.

This parameter is valid for any V_{CC} between 0 V and 1.2 V with a transition time of up to 10 ms.

^[8] This parameter is valid for any V_{CC} between 0 V and 1.2 V with a transition time of up to 10 ms. From $V_{CC} = 1.2$ V to $V_{CC} = 3.0$ V ± 0.3 V a transition time of 100 μ s is permitted. This parameter is valid for $T_{amb} = 25$ °C only.

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10. Dynamic characteristics

Table 8. Dynamic characteristics

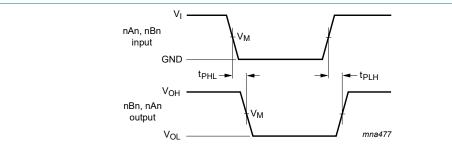
Voltages are referenced to GND (ground = 0 V); T_{amb} = -40 °C to +85 °C; for test circuit see Fig. 7.

Symbol	Parameter	Conditions	Min	Typ[1]	Max	Unit
V _{CC} = 2.	5 V ± 0.2 V					
t _{PLH}	LOW to HIGH propagation delay	nAn to nBn or nBn to nAn; see Fig. 5	1.5	2.9	5.3	ns
t _{PHL}	HIGH to LOW propagation delay	nAn to nBn or nBn to nAn; see Fig. 5	1.5	2.4	4.7	ns
t _{PZH}	OFF-state to HIGH propagation delay	nOE to nAn or nOE to nBn; see Fig. 6	1.5	4.3	6.3	ns
t _{PZL}	OFF-state to LOW propagation delay	nOE to nAn or nOE to nBn; see Fig. 6	1.5	3.1	4.6	ns
t _{PHZ}	HIGH to OFF-state propagation delay	nOE to nAn or nOE to nBn; see Fig. 6	1.5	4.2	6.2	ns
t _{PLZ}	LOW to OFF-state propagation delay	nOE to nAn or nOE to nBn; see Fig. 6	1.5	3.3	5.1	ns
V _{CC} = 3.	3 V ± 0.3 V		'			
t _{PLH}	LOW to HIGH propagation delay	nAn to nBn or nBn to nAn; see Fig. 5	0.5	2.3	3.6	ns
t _{PHL}	HIGH to LOW propagation delay	nAn to nBn or nBn to nAn; see Fig. 5	0.5	2.0	3.1	ns
t _{PZH}	OFF-state to HIGH propagation delay	nOE to nAn or nOE to nBn; see Fig. 6	1.0	3.0	5.0	ns
t _{PZL}	OFF-state to LOW propagation delay	nOE to nAn or nOE to nBn; see Fig. 6	1.0	2.6	3.9	ns
t _{PHZ}	HIGH to OFF-state propagation delay	nOE to nAn or nOE to nBn; see Fig. 6	1.0	3.6	5.2	ns
t _{PLZ}	LOW to OFF-state propagation delay	nOE to nAn or nOE to nBn; see Fig. 6	1.0	3.0	4.6	ns

^[1] Typical values for V_{CC} = 2.3 V to 2.7 V are measured at V_{CC} = 2.5 V and T_{amb} = 25 °C. Typical values for V_{CC} = 3.0 V to 3.6 V are measured at V_{CC} = 3.3 V and T_{amb} = 25 °C.

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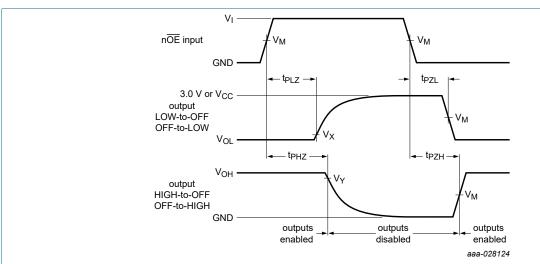
10.1. Waveforms and test circuit



Measurement points are given in Table 9.

V_{OL} and V_{OH} are typical voltage output levels that occur with the output load.

Fig. 5. Input (nAn or nBn) to output (nBn or nAn) propagation delays



Measurement points are given in Table 9.

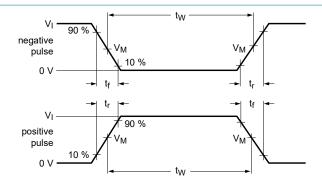
 V_{OL} and V_{OH} are typical voltage output levels that occur with the output load.

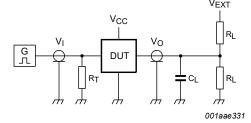
Fig. 6. 3-state output enable and disable times

Table 9. Measurement points

V _{CC}	Input		Output			
	VI	V _M	V _M	V _X	V _Y	
V _{CC} ≤ 2.7 V	V _{CC}	0.5 x V _{CC}	0.5 x V _{CC}	V _{OL} + 0.1 V	V _{OH} - 0.1 V	
V _{CC} ≥ 3.0 V	3.0 V	1.5 V	1.5 V	V _{OL} + 0.3 V	V _{OH} - 0.3 V	

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Test data is given in Table 10.

Definitions test circuit:

R_L = Load resistance.

 C_L = Load capacitance including jig and probe capacitance.

 R_T = Termination resistance should be equal to output impedance Z_0 of the pulse generator.

 V_{EXT} = Test voltage for switching times.

Fig. 7. Test circuit for measuring switching times

Table 10. Test data

Input			Load		V _{EXT}			
V_{l}	fi	t _W	t _r , t _f	CL	R_L	t _{PHZ} , t _{PZH}	t _{PLZ} , t _{PZL}	t _{PLH} , t _{PHL}
3.0 V or V _{CC} whichever is less	≤ 10 MHz	500 ns	≤ 2.5 ns	50 pF	500 Ω	GND	6 V or V _{CC} x 2	open

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11. Package outline

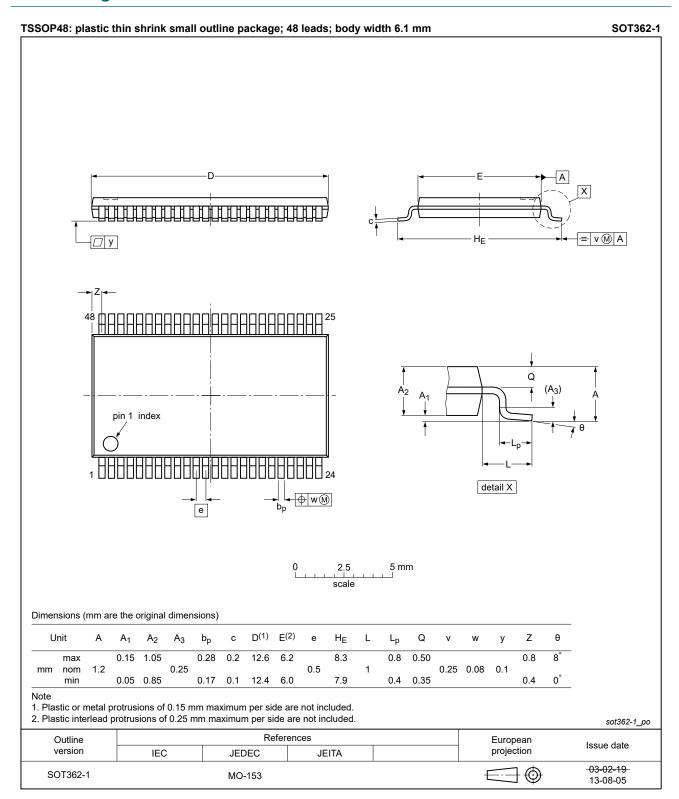


Fig. 8. Package outline SOT362-1 (TSSOP48)

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12. Abbreviations

Table 11. Abbreviations

Acronym	Description			
BiCMOS	Bipolar Complementary Metal Oxide Semiconductor			
DUT	ce Under Test			
ESD	ElectroStatic Discharge			
MIL	Military			
MM	Machine Model			
TTL	Transistor-Transistor Logic			

13. Revision history

Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes				
74ALVT162245 v.4	20210203	Product data sheet	-	74ALVT162245 v.3				
Modifications:	•••	 Type number 74ALVT162245DL (SOT370-1 / SSOP48) removed. Section 1 and Section 2 updated. 						
74ALVT162245 v.3	20180129	Product data sheet	-	74ALVT162245 v.2				
Modifications:	guidelines	t of this data sheet has been of Nexperia. s have been adapted to the	· ·	,				
74ALVT162245 v.2	19980213	Product specification	-	74ALVT162245 v.1				
74ALVT162245 v.1	19960305	Product specification	-	-				

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14. Legal information

Data sheet status

Document status [1][2]	Product status [3]	Definition
Objective [short] data sheet	Development	This document contains data from the objective specification for product development.
Preliminary [short] data sheet	Qualification	This document contains data from the preliminary specification.
Product [short] data sheet	Production	This document contains the product specification.

- Please consult the most recently issued document before initiating or completing a design.
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