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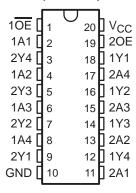
- Output Ports Have Equivalent 25- Ω Series Resistors, So No External Resistors Are Required
- State-of-the-Art *EPIC-IIB™* BiCMOS Design Significantly Reduces Power Dissipation
- Typical V_{OLP} (Output Ground Bounce) < 1 V at $V_{CC} = 5 \text{ V}, T_A = 25^{\circ}\text{C}$
- **Package Options Include Plastic** Small-Outline (DW), Shrink Small-Outline (DB), and Thin Shrink Small-Outline (PW) Packages, Ceramic Chip Carriers (FK), and Plastic (N) and Ceramic (J) DIPs

description

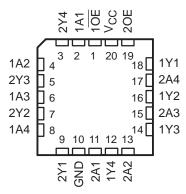
These octal buffers and line drivers are designed specifically to improve both the performance and density of 3-state memory address drivers, clock drivers, and bus-oriented receivers transmitters. Together with the SN54ABT2240, SN74ABT2240A and 'ABT2244A, these devices provide the choice of selected combinations of inverting and noninverting outputs, symmetrical active-low output-enable (OE) inputs, and complementary OE and OE inputs. These devices feature high fan-out and improved fan-in.

The outputs, which are designed to sink up to 12 mA, include equivalent 25- Ω series resistors to reduce overshoot and undershoot.

SN54ABT2241 . . . J PACKAGE SN74ABT2241 . . . DB. DW. N. OR PW PACKAGE (TOP VIEW)



SN54ABT2241 . . . FK PACKAGE (TOP VIEW)



To ensure the high-impedance state during power up or power down, \overline{OE} should be tied to V_{CC} through a pullup resistor; the minimum value of the resistor is determined by the current-sinking capability of the driver. OE should be tied to GND through a pulldown resistor; the minimum value of the resistor is determined by the current-sourcing capability of the driver.

The SN54ABT2241 is characterized for operation over the full military temperature range of -55°C to 125°C. The SN74ABT2241 is characterized for operation from -40°C to 85°C.



Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.

EPIC-IIB is a trademark of Texas Instruments Incorporated

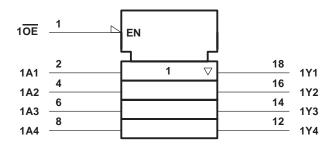


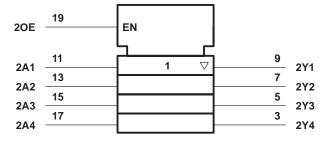
FUNCTION TABLES

INPU	JTS	OUTPUT
1OE	1A	1Y
L	Н	Н
L	L	L
Н	Χ	Z

INP	JTS	OUTPUT
20E	2A	2Y
Н	Н	Н
Н	L	L
L	Χ	Z

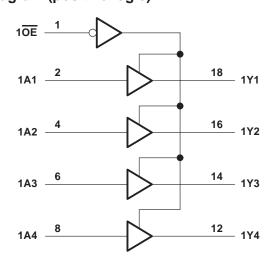
logic symbol†

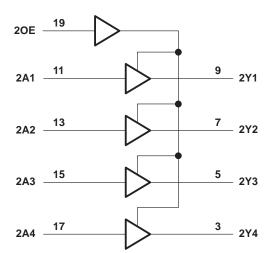




[†] This symbol is in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12.

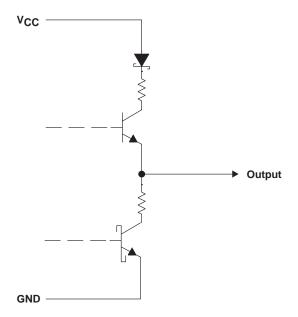
logic diagram (positive logic)





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schematic of Y outputs



absolute maximum ratings over operating free-air temperature range (unless otherwise noted)†

Supply voltage range, V _{CC}		–0.5 V to 7 V
Input voltage range, V _I (see Note 1)		–0.5 V to 7 V
Voltage range applied to any output in the high	or power-off state, VO	–0.5 V to 5.5 V
Current into any output in the low state, IO		30 mA
Input clamp current, I_{IK} ($V_I < 0$)		–18 mA
Output clamp current, I _{OK} (V _O < 0)		–50 mA
Package thermal impedance, θ _{JA} (see Note 2):	DB package	115°C/W
•	DW package	97°C/W
	N package	67°C/W
	PW package	128°C/W
Storage temperature range, T _{stq}		–65°C to 150°C

[†] Stresses beyond those listed under "absolute maximum ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

- NOTES: 1. The input and output negative-voltage ratings may be exceeded if the input and output clamp-current ratings are observed.
 - 2. The package thermal impedance is calculated in accordance with EIA/JEDEC Std JESD51, except for through-hole packages, which use a trace length of zero.



SN54ABT2241, SN74ABT2241 OCTAL BUFFERS AND LINE/MOS DRIVERS WITH 3-STATE OUTPUTS

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recommended operating conditions (see Note 3)

			SN54AE	T2241	SN74AB	T2241	UNIT
			MIN	MAX	MIN	MAX	UNIT
Vcc	Supply voltage		4.5	5.5	4.5	5.5	V
VIH	High-level input voltage		2	E	2		V
VIL	Low-level input voltage		0.8		0.8	V	
VI	Input voltage		0,4	Vcc	0	VCC	V
IOH	High-level output current		Ó	-24		-32	mA
IOL	Low-level output current	200	12		12	mA	
Δt/Δν	Input transition rise or fall rate	Outputs enabled	d'	5		5	ns/V
TA	Operating free-air temperature	-55	125	-40	85	°C	

NOTE 3: Unused inputs must be held high or low to prevent them from floating.

electrical characteristics over recommended operating free-air temperature range (unless otherwise noted)

PARAMETER		TEST CON	IDITIONS	T,	4 = 25°C	;	SN54AB	T2241	SN74AB	T2241	UNIT
PAI	RAMETER	TEST COR	ADITIONS	MIN	TYP [†]	MAX	MIN	MAX	MIN	MAX	UNIT
VIK		V _{CC} = 4.5 V,	I _I = -18 mA			-1.2		-1.2		-1.2	V
		$V_{CC} = 4.5 \text{ V},$	$I_{OH} = -3 \text{ mA}$	2.5			2.5		2.5		
\ \/ a		V _{CC} = 5 V,	I _{OH} = -3 mA	3			3		3		V
VOH		V _{CC} = 4.5 V	I _{OH} = -24 mA	2			2				V
		vCC = 4.3 v	$I_{OH} = -32 \text{ mA}$	2*					2		
VOL		$V_{CC} = 4.5 \text{ V},$	$I_{OL} = 12 \text{ mA}$			0.8		0.8		0.8	V
V _{hys}					100						mV
IĮ		$V_{CC} = 5.5 \text{ V},$	$V_I = V_{CC}$ or GND			±1		±1		±1	μΑ
lozh		$V_{CC} = 5.5 \text{ V},$	V _O = 2.7 V			50		50		50	μΑ
lozL		$V_{CC} = 5.5 \text{ V},$	$V_0 = 0.5 V$			-50		<u>/</u> -50		-50	μΑ
l _{off}		$V_{CC} = 0$,	V_I or $V_O \le 4.5 \text{ V}$			±100	1	2		±100	μΑ
ICEX		V _{CC} = 5.5 V, V _O = 5.5 V	Outputs high			50	Show	50		50	μΑ
IO [‡]		V _{CC} = 5.5 V,	V _O = 2.5 V	-50	-100	-180	2 –50	-180	-50	-180	mA
		V _{CC} = 5.5 V,	Outputs high		1	250		250		250	μΑ
Icc		$I_{O} = 0$,	Outputs low		24	30		30		30	mA
		$V_I = V_{CC}$ or GND	Outputs disabled		0.5	250		250		250	μΑ
	Doto inputo	V _{CC} = 5.5 V, One input at 3.4 V,	Outputs enabled			1.5		1.5		1.5	
ΔICC§	Data inputs Other inputs		Outputs disabled			0.05		0.05		0.05	mA
Control inputs		V _{CC} = 5.5 V, One input at 3.4 V, Other inputs at V _{CC} or GND				1.5		1.5		1.5	
Ci	C _i	V _I = 2.5 V or 0.5 V			3						pF
Co	Co	V _O = 2.5 V or 0.5 V			8.5						pF

^{*} On products compliant to MIL-PRF-38535, this parameter does not apply.



[†] All typical values are at $V_{CC} = 5 \text{ V}$.

[‡] Not more than one output should be tested at a time, and the duration of the test should not exceed one second.

[§] This is the increase in supply current for each input that is at the specified TTL voltage level rather than VCC or GND.

SN54ABT2241, SN74ABT2241 OCTAL BUFFERS AND LINE/MOS DRIVERS WITH 3-STATE OUTPUTS

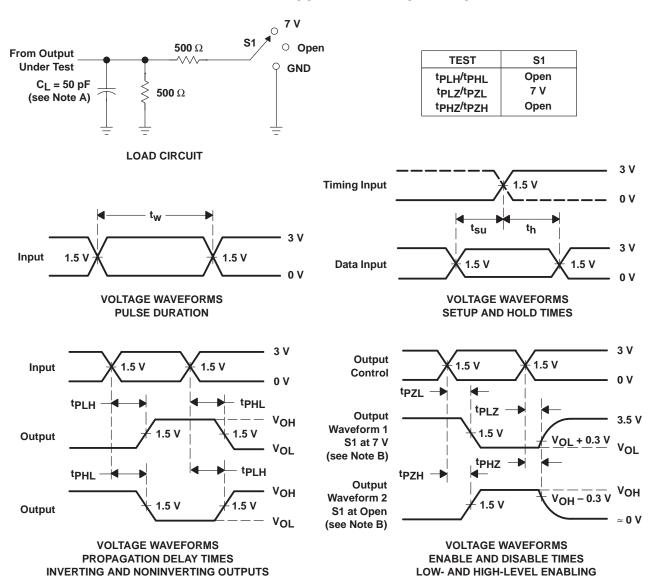
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switching characteristics over recommended ranges of supply voltage and operating free-air temperature, C_L = 50 pF (unless otherwise noted) (see Figure 1)

PARAMETER	FROM TO (INPUT) (OUTPUT)		V _{CC} = 5 V, T _A = 25°C			SN54AB	T2241	SN74AB	UNIT	
	(INPOT)	(551761)	MIN	TYP	MAX	MIN	MAX	MIN	MAX	
tPLH	А	V	1	3	4.3	1	4.8	1	4.7	ns
t _{PHL}	A	ı	1	4.3	5.3	1 2	5.7	1	5.6	115
^t PZH	OF 27 OF	V	1.1	3.5	4.8	1,1	6.1	1.1	5.8	ns
tPZL	OE or OE	ī	2.1	6.2	7.6	2.1	8.6	2.1	8.4	115
^t PHZ	OE or OE	V	1.7	4.2	5.6	01.7	6.7	1.7	6.6	ns
t _{PLZ}	OE 01 OE	ī	1.7	3.9	5.8	1.7	6.9	1.7	6.4	115

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PARAMETER MEASUREMENT INFORMATION



NOTES: A. C_L includes probe and jig capacitance.

- B. Waveform 1 is for an output with internal conditions such that the output is low except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high except when disabled by the output control.
- C. All input pulses are supplied by generators having the following characteristics: PRR \leq 10 MHz, $Z_O = 50 \,\Omega$, $t_f \leq 2.5 \,\text{ns}$, $t_f \leq 2.5 \,\text{ns}$.
- D. The outputs are measured one at a time with one transition per measurement.

Figure 1. Load Circuit and Voltage Waveforms







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PACKAGING INFORMATION

Orderable Device	Status	Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead/Ball Finish		Op Temp (°C)		Samples
SN74ABT2241DBLE	OBSOLETE	SSOP	DB	20		(2) TBD	Call TI	(3) Call TI	-40 to 85	(4)	
SN74ABT2241DBR	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AA241	Samples
SN74ABT2241DBRE4	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AA241	Samples
SN74ABT2241DBRG4	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AA241	Samples
SN74ABT2241DW	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT2241	Samples
SN74ABT2241DWE4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT2241	Samples
SN74ABT2241DWG4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT2241	Samples
SN74ABT2241DWR	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT2241	Samples
SN74ABT2241DWRE4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT2241	Samples
SN74ABT2241DWRG4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT2241	Samples
SN74ABT2241N	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	-40 to 85	SN74ABT2241N	Samples
SN74ABT2241NE4	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	-40 to 85	SN74ABT2241N	Sample
SN74ABT2241PWLE	OBSOLETE	TSSOP	PW	20		TBD	Call TI	Call TI	-40 to 85		
SN74ABT2241PWR	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AA241	Sample
SN74ABT2241PWRE4	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AA241	Sample
SN74ABT2241PWRG4	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AA241	Samples

⁽¹⁾ The marketing status values are defined as follows: **ACTIVE:** Product device recommended for new designs.

LIFEBUY: TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

NRND: Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.



PACKAGE OPTION ADDENDUM

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PREVIEW: Device has been announced but is not in production. Samples may or may not be available.

the die and leadframe. The component is otherwise considered Pb-Free (RoHS compatible) as defined above.

OBSOLETE: TI has discontinued the production of the device.

(2) Eco Plan - The planned eco-friendly classification: Pb-Free (RoHS), Pb-Free (RoHS Exempt), or Green (RoHS & no Sb/Br) - please check http://www.ti.com/productcontent for the latest availability information and additional product content details.

TBD: The Pb-Free/Green conversion plan has not been defined.

Pb-Free (RoHS): TI's terms "Lead-Free" or "Pb-Free" mean semiconductor products that are compatible with the current RoHS requirements for all 6 substances, including the requirement that lead not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI Pb-Free products are suitable for use in specified lead-free processes. **Pb-Free** (RoHS Exempt): This component has a RoHS exemption for either 1) lead-based flip-chip solder bumps used between the die and package, or 2) lead-based die adhesive used between

Green (RoHS & no Sb/Br): TI defines "Green" to mean Pb-Free (RoHS compatible), and free of Bromine (Br) and Antimony (Sb) based flame retardants (Br or Sb do not exceed 0.1% by weight in homogeneous material)

(3) MSL, Peak Temp. -- The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

⁽⁴⁾ Only one of markings shown within the brackets will appear on the physical device.

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PACKAGE MATERIALS INFORMATION

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TAPE AND REEL INFORMATION





	Dimension designed to accommodate the component width
	Dimension designed to accommodate the component length
K0	Dimension designed to accommodate the component thickness
W	Overall width of the carrier tape
P1	Pitch between successive cavity centers

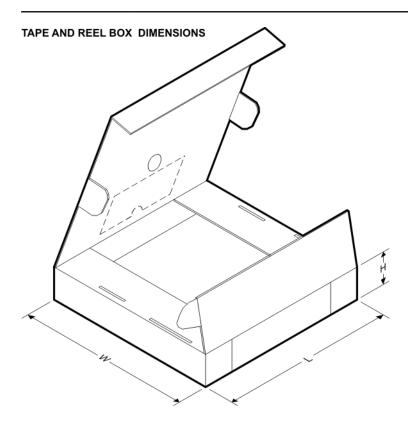
QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal

Device	Package Type	Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74ABT2241DBR	SSOP	DB	20	2000	330.0	16.4	8.2	7.5	2.5	12.0	16.0	Q1
SN74ABT2241DWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.0	2.7	12.0	24.0	Q1
SN74ABT2241PWR	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1

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*All dimensions are nominal

7 III GITTIOTOTOTO GEO TIOTTIITIGI							
Device	Package Type	e Package Drawing		SPQ	Length (mm)	Width (mm)	Height (mm)
SN74ABT2241DBR	SSOP	DB	20	2000	367.0	367.0	38.0
SN74ABT2241DWR	SOIC	DW	20	2000	367.0	367.0	45.0
SN74ABT2241PWR	TSSOP	PW	20	2000	367.0	367.0	38.0

N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN



NOTES:

- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).
- The 20 pin end lead shoulder width is a vendor option, either half or full width.



DW (R-PDSO-G20)

PLASTIC SMALL OUTLINE



NOTES: A. All linear dimensions are in inches (millimeters). Dimensioning and tolerancing per ASME Y14.5M-1994.

- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion not to exceed 0.006 (0,15).
- D. Falls within JEDEC MS-013 variation AC.



PW (R-PDSO-G20)

PLASTIC SMALL OUTLINE



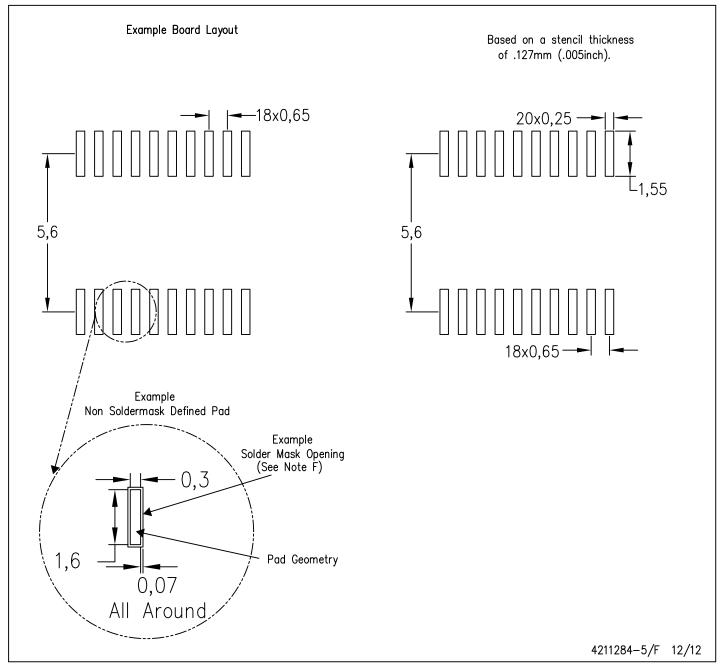
NOTES:

- A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M—1994.
- B. This drawing is subject to change without notice.
- Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0,15 each side.
- Body width does not include interlead flash. Interlead flash shall not exceed 0,25 each side.
- E. Falls within JEDEC MO-153



PW (R-PDSO-G20)

PLASTIC SMALL OUTLINE



NOTES:

- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Publication IPC-7351 is recommended for alternate design.
- D. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Refer to IPC-7525 for other stencil recommendations.
- E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



DB (R-PDSO-G**)

PLASTIC SMALL-OUTLINE

28 PINS SHOWN



NOTES: A. All linear dimensions are in millimeters.

B. This drawing is subject to change without notice.

C. Body dimensions do not include mold flash or protrusion not to exceed 0,15.

D. Falls within JEDEC MO-150

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- Поставка более 17-ти миллионов наименований электронных компонентов;
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- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001:
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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