

# MC100EL15DR2G Datasheet

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iGi Electronics Part Number	MC100EL15DR2G-DG
Manufacturer	onsemi
nufacturer Product Number	MC100EL15DR2G
Description	IC CLK BUFFER 2:4 1.25GHZ 16SOIC
Detailed Description	Clock Fanout Buffer (Distribution), Multiplexer IC 2: 4 1.25 GHz 16-SOIC (0.154", 3.90mm Width)

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## Purchase and inquiry

Manufacturer Product Number:	Manufacturer:						
MC100EL15DR2G	onsemi						
Series:	Product Status:						
100EL	Active						
Туре:	Number of Circuits:						
Fanout Buffer (Distribution), Multiplexer	1						
Ratio - Input:Output:	Differential - Input:Output:						
2:4	Yes/Yes						
Input:	Output:						
ECL, PECL	ECL, PECL						
Frequency - Max:	Voltage - Supply:						
1.25 GHz	4.2V ~ 5.7V						
Operating Temperature:	Mounting Type:						
-40°C ~ 85°C	Surface Mount						
Package / Case:	Supplier Device Package:						
16-SOIC (0.154", 3.90mm Width)	16-SOIC						
Base Product Number:							
MC100EL15							

## **Environmental & Export classification**

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8542.39.0001	

## onsemi

## 5 V ECL 1:4 Clock Distribution Chip MC10EL15, MC100EL15

## Description

The MC10EL/100EL15 is a low skew 1:4 clock distribution chip designed explicitly for low skew clock distribution applications. The  $V_{BB}$  pin, an internally generated voltage supply, is available to this device only. For single-ended input conditions, the unused differential input is connected to  $V_{BB}$  as a switching reference voltage.  $V_{BB}$  may also rebias AC coupled inputs. When used, decouple  $V_{BB}$  and  $V_{CC}$  via a 0.01  $\mu F$  capacitor and limit current sourcing or sinking to 0.5 mA. When not used,  $V_{BB}$  should be left open.

The EL15 features a multiplexed clock input to allow for the distribution of a lower speed scan or test clock along with the high speed system clock. When LOW (or left open and pulled LOW by the input pulldown resistor) the SEL pin will select the differential clock input.

The common enable  $(\overline{\text{EN}})$  is synchronous so that the outputs will only be enabled/disabled when they are already in the LOW state. This avoids any chance of generating a runt clock pulse when the device is enabled/disabled as can happen with an asynchronous control. The internal flip flop is clocked on the falling edge of the input clock, therefore all associated specification limits are referenced to the negative edge of the clock input.

The 100 series contains temperature compensation.

## Features

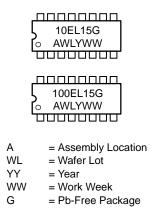
- 50 ps Output-to-Output Skew
- Synchronous Enable/Disable
- Multiplexed Clock Input
- PECL Mode Operating Range:
  - $V_{CC} = 4.2$  V to 5.7 V with  $V_{EE} = 0$  V
- NECL Mode Operating Range:
  - $V_{CC} = 0$  V with  $V_{EE} = -4.2$  V to -5.7 V
- Internal Input Pulldown Resistors on CLKs, SCLK, SEL, and  $\overline{EN}$
- These Devices are Pb-Free, Halogen Free and are RoHS Compliant





SOIC-16 D SUFFIX CASE 751B-05

### **MARKING DIAGRAMS\***



\*For additional marking information, refer to Application Note <u>AND8002/D</u>.

## **ORDERING INFORMATION**

Device	Device Package						
MC100EL15DG	SOIC-16 (Pb-Free)	48 Units/Tube					
MC100EL15DR2G	SOIC-16 (Pb-Free)	2500 / Tape & Reel					

### **DISCONTINUED** (Note 1)

MC10EL15DR2G	SOIC-16	2500 /
	(Pb-Free)	Tape & Reel

+For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, <u>BRD8011/D</u>.

 DISCONTINUED: This device is not recommended for new design. Please contact your onsemi representative for information. The most current information on this device may be available on <u>www.onsemi.com</u>.

MC10EL15, MC100EL15

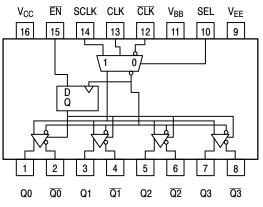


Figure 1. Logic Diagram and Pinout Assignment

## Table 1. PIN DESCRIPTION

PIN	FUNCTION
CLK, CLK	ECL Diff Clock Inputs
SCLK	ECL Scan Clock Input
EN	ECL Sync Enable
SEL	ECL Clock Select Input
Q <sub>0-3</sub> , Q <sub>0-3</sub>	ECL Diff Clock Outputs
V <sub>BB</sub>	Reference Voltage Output
V <sub>CC</sub>	Positive Supply
V <sub>EE</sub>	Negative Supply

## **Table 2. FUNCTION TABLE**

CLK*	SCLK*	SEL*	<mark>EN</mark> ∗	Q
L	х	L	L	L
н	Х	L	L	Н
X	L	Н	L	L
X	н	Н	L	Н
X	Х	Х	н	L(1)

\*Pins will default low when left open. 1. On next negative transition of CLK or SCLK

## Table 3. ATTRIBUTES

Characteristics	Value
Internal Input Pulldown Resistor	75 kΩ
Internal Input Pullup Resistor	N/A
ESD Protection Human Body Model Machine Model Charged Device Model	> 1 kV > 100 V 2 kV
Moisture Sensitivity, Indefinite Time Out of Drypack (Note 1)	Level 1
Flammability Rating Oxygen Index: 28 to 34	UL 94 V–0 @ 0.125 in
Transistor Count	103
Meets or Exceeds JEDEC Spec EIA/JESD78 IC Latchup Test	÷

1. For additional information, see Application Note <u>AND8003/D</u>.

## **Table 4. MAXIMUM RATINGS**

Symbol	Parameter	Condition 1	Condition 2	Rating	Unit
V <sub>CC</sub>	PECL Mode Power Supply	V <sub>EE</sub> = 0 V		8	V
$V_{EE}$	NECL Mode Power Supply	$V_{CC} = 0 V$		-8	V
l <sub>out</sub>	Output Current	Continuous Surge		50 100	mA
VI	PECL Mode Input Voltage NECL Mode Input Voltage	V <sub>EE</sub> = 0 V V <sub>CC</sub> = 0 V	$\begin{array}{l} V_I \leq V_{CC} \\ V_I \geq V_{EE} \end{array}$	6 -6	V
I <sub>BB</sub>	V <sub>BB</sub> Sink/Source			± 0.5	mA
T <sub>A</sub>	Operating Temperature Range			-40 to +85	°C
T <sub>stg</sub>	Storage Temperature Range			-65 to +150	°C
$\theta_{JA}$	Thermal Resistance (Junction-to-Ambient)	0 lfpm 500 lfpm	SOIC-16	130 75	°C/W
$\theta_{JC}$	Thermal Resistance (Junction-to-Case)	Standard Board	SOIC-16	33 to 36	°C/W
T <sub>sol</sub>	Wave Solder (Pb-Free)	<2 to 3 sec @ 260°C		265	°C

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

## Table 5. 10EL SERIES PECL DC CHARACTERISTICS ( $V_{CC} = 5.0 \text{ V}$ ; $V_{EE} = 0.0 \text{ V}$ (Note 1))

			<b>−40°C</b>			25°C			85°C		
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
I <sub>EE</sub>	Power Supply Current		25	35		25	35		25	35	mA
V <sub>OH</sub>	Output HIGH Voltage (Note 2)	3920	4010	4110	4020	4105	4190	4090	4185	4280	mV
V <sub>OL</sub>	Output LOW Voltage (Note 2)	3050	3200	3350	3050	3210	3370	3050	3227	3405	mV
V <sub>IH</sub>	Input HIGH Voltage (Single-Ended)	3770		4110	3870		4190	3940		4280	mV
V <sub>IL</sub>	Input LOW Voltage (Single-Ended)	3050		3500	3050		3520	3050		3555	mV
$V_{BB}$	Output Voltage Reference	3.57		3.7	3.65		3.75	3.69		3.81	V
VIHCMR	Input HIGH Voltage Common Mode Range (Differential) (Note 3)	2.5		4.6	2.5		4.6	2.5		4.6	V
I <sub>IH</sub>	Input HIGH Current			150			150			150	μA
Ι <sub>ΙL</sub>	Input LOW Current	0.5			0.5			0.3			μA

NOTE: Device will meet the specifications after thermal equilibrium has been established when mounted in a test socket or printed circuit board with maintained transverse airflow greater than 500 lfpm.

Input and output parameters vary 1:1 with V<sub>CC</sub>. V<sub>EE</sub> can vary +0.06 V / -0.5 V.
Outputs are terminated through a 50 Ω resistor to V<sub>CC</sub> - 2.0 V.
V<sub>IHCMR</sub> min varies 1:1 with V<sub>EE</sub>, V<sub>IHCMR</sub> max varies 1:1 with V<sub>CC</sub>. The V<sub>IHCMR</sub> range is referenced to the most positive side of the differential input signal. Normal operation is obtained if the HIGH level falls within the specified range and the peak-to-peak voltage lies between V<sub>PP</sub>min and 1 V.

## Table 6. 10EL SERIES NECL DC CHARACTERISTICS (V<sub>CC</sub> = 0 V; V<sub>EE</sub> = -5.0 V (Note 1))

		<b>−40°C</b>			25°C			85°C			
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
I <sub>EE</sub>	Power Supply Current		25	35		25	35		25	35	mA
V <sub>OH</sub>	Output HIGH Voltage (Note 2)	-1080	-990	-890	-980	-895	-810	-910	-815	-720	mV
V <sub>OL</sub>	Output LOW Voltage (Note 2)	-1950	-1800	-1650	-1950	-1790	-1630	-1950	-1773	-1595	mV
V <sub>IH</sub>	Input HIGH Voltage (Single-Ended)	-1230		-890	-1130		-810	-1060		-720	mV
V <sub>IL</sub>	Input LOW Voltage (Single-Ended)	-1950		-1500	-1950		-1480	-1950		-1445	mV
$V_{BB}$	Output Voltage Reference	-1.43		-1.30	-1.35		-1.25	-1.31		-1.19	V
VIHCMR	Input HIGH Voltage Common Mode Range (Differential) (Note 3)	-2.5		-0.4	-2.5		-0.4	-2.5		-0.4	V
I <sub>IH</sub>	Input HIGH Current			150			150			150	μA
١ <sub>١L</sub>	Input LOW Current	0.5			0.5			0.3			μA

NOTE: Device will meet the specifications after thermal equilibrium has been established when mounted in a test socket or printed circuit board with maintained transverse airflow greater than 500 lfpm.

1. Input and output parameters vary 1:1 with V<sub>CC</sub>. V<sub>EE</sub> can vary +0.06 V / -0.5 V.

Outputs are terminated through a 50 Ω resistor to V<sub>CC</sub> – 2.0 V.
V<sub>IHCMR</sub> min varies 1:1 with V<sub>EE</sub>, V<sub>IHCMR</sub> max varies 1:1 with V<sub>CC</sub>. The V<sub>IHCMR</sub> range is referenced to the most positive side of the differential input signal. Normal operation is obtained if the HIGH level falls within the specified range and the peak-to-peak voltage lies between V<sub>PP</sub>min and 1 V.

## Table 7. 100EL SERIES PECL DC CHARACTERISTICS (V<sub>CC</sub> = 5.0 V; V<sub>EE</sub> = 0.0 V (Note 1))

		<b>−40°C</b>			25°C			85°C				
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit	
I <sub>EE</sub>	Power Supply Current		25	35		25	35		25	38	mA	
V <sub>OH</sub>	Output HIGH Voltage (Note 2)	3915	3995	4120	3975	4045	4120	3975	4050	4120	mV	
V <sub>OL</sub>	Output LOW Voltage (Note 2)	3170	3305	3445	3190	3295	3380	3190	3295	3380	mV	
V <sub>IH</sub>	Input HIGH Voltage (Single-Ended)	3835		4120	3835		4120	3835		4120	mV	
V <sub>IL</sub>	Input LOW Voltage (Single-Ended)	3190		3525	3190		3525	3190		3525	mV	
$V_{BB}$	Output Voltage Reference	3.62		3.74	3.62		3.74	3.62		3.74	V	
VIHCMR	Input HIGH Voltage Common Mode Range (Differential) (Note 3)	2.5		4.6	2.5		4.6	2.5		4.6	V	
I <sub>IH</sub>	Input HIGH Current			150			150			150	μΑ	
I <sub>IL</sub>	Input LOW Current	0.5			0.5			0.5			μΑ	

NOTE: Device will meet the specifications after thermal equilibrium has been established when mounted in a test socket or printed circuit board with maintained transverse airflow greater than 500 lfpm.

1. Input and output parameters vary 1:1 with V<sub>CC</sub>. V<sub>EE</sub> can vary +0.8 V / –0.5 V. 2. Outputs are terminated through a 50  $\Omega$  resistor to V<sub>CC</sub> – 2.0 V.

V<sub>IHCMR</sub> min varies 1:1 with V<sub>EE</sub>, V<sub>IHCMR</sub> max varies 1:1 with V<sub>CC</sub>. The V<sub>IHCMR</sub> range is referenced to the most positive side of the differential input signal. Normal operation is obtained if the HIGH level falls within the specified range and the peak-to-peak voltage lies between V<sub>PP</sub>min and 1 V.

## Table 8. 100EL SERIES NECL DC CHARACTERISTICS (V<sub>CC</sub> = 0 V; V<sub>EE</sub> = -5.0 V (Note 1))

		–40°C 25°C		85°C							
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
I <sub>EE</sub>	Power Supply Current		25	35		25	35		25	38	mA
V <sub>OH</sub>	Output HIGH Voltage (Note 2)	-1085	-1005	-880	-1025	-955	-880	-1025	-955	-880	mV
V <sub>OL</sub>	Output LOW Voltage (Note 2)	-1830	-1695	-1555	-1810	-1705	-1620	-1810	-1705	-1620	mV
V <sub>IH</sub>	Input HIGH Voltage (Single-Ended)	-1165		-880	-1165		-880	-1165		-880	mV
V <sub>IL</sub>	Input LOW Voltage (Single-Ended)	-1810		-1475	-1810		-1475	-1810		-1475	mV
$V_{BB}$	Output Voltage Reference	-1.38		-1.26	-1.38		-1.26	-1.38		-1.26	V
VIHCMR	Input HIGH Voltage Common Mode Range (Differential) (Note 3)	-2.5		-0.4	-2.5		-0.4	-2.5		-0.4	V
I <sub>IH</sub>	Input HIGH Current			150			150			150	μΑ
١ <sub>١L</sub>	Input LOW Current	0.5			0.5			0.5			μA

NOTE: Device will meet the specifications after thermal equilibrium has been established when mounted in a test socket or printed circuit board with maintained transverse airflow greater than 500 lfpm.

1. Input and output parameters vary 1:1 with V<sub>CC</sub>. V<sub>EE</sub> can vary +0.8 V / –0.5 V.

Outputs are terminated through a 50 Ω resistor to V<sub>CC</sub> – 2.0 V.
V<sub>IHCMR</sub> min varies 1:1 with V<sub>EE</sub>, V<sub>IHCMR</sub> max varies 1:1 with V<sub>CC</sub>. The V<sub>IHCMR</sub> range is referenced to the most positive side of the differential input signal. Normal operation is obtained if the HIGH level falls within the specified range and the peak-to-peak voltage lies between V<sub>PP</sub>min and 1 V.

			<b>−40°C</b>		25°C			85°C			
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
f <sub>MAX</sub>	Maximum Toggle Frequency					1.25					GHz
t <sub>PLH</sub> t <sub>PHL</sub>	Propagation Delay CLK to Q (Diff) CLK to Q (SE) SCLK to Q	460 410 410		660 710 710	470 420 420		670 720 720	500 450 470		700 750 750	ps
t <sub>SKEW</sub>	Part-to-Part Skew Within-Device Skew (Note 2)			200 50			200 50			200 50	ps
t <sub>JITTER</sub>	Random Clock Jitter (RMS)					2.6					ps
t <sub>S</sub>	Setup Time EN	150			150			150			ps
t <sub>H</sub>	Hold Time EN	400			400			400			ps
V <sub>PP</sub>	Input Swing (Note 3)	150		1000	150		1000	150		1000	mV
t <sub>r</sub> t <sub>f</sub>	Output Rise/Fall Times Q (20% – 80%)	325		575	325		575	325		575	ps

Table 9. AC CHARACTERISTICS ( $V_{CC} = 5.0 \text{ V}$ ;  $V_{EE} = 0.0 \text{ V}$  or  $V_{CC} = 0 \text{ V}$ ;  $V_{EE} = -5.0 \text{ V}$  (Note 1))

NOTE: Device will meet the specifications after thermal equilibrium has been established when mounted in a test socket or printed circuit board with maintained transverse airflow greater than 500 lfpm.

1. 10 Series: V<sub>EE</sub> can vary +0.06 V / -0.5 V.

100 Series:  $\overline{V}_{EE}$  can vary +0.8 V / -0.5 V.

2. Skews are specified for identical LOW-to-HIGH or HIGH-to-LOW transitions.

3. V<sub>PP</sub>(min) is minimum input swing for which AC parameters guaranteed. The device has a DC gain of ≈ 40.

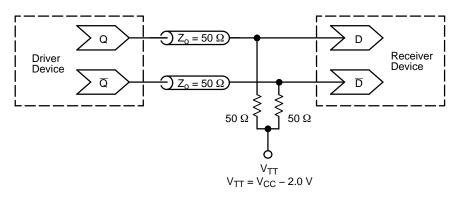


Figure 2. Typical Termination for Output Driver and Device Evaluation (See Application Note <u>AND8020/D</u> – Termination of ECL Logic Devices.)

## **Resource Reference of Application Notes**

AN1405/D	-	ECL Clock Distribution Techniques
AN1406/D	_	Designing with PECL (ECL at +5.0 V)
AN1503/D	_	ECLinPS <sup>™</sup> I/O SPiCE Modeling Kit
AN1504/D	_	Metastability and the ECLinPS Family
AN1568/D	_	Interfacing Between LVDS and ECL
AN1672/D	-	The ECL Translator Guide
AND8001/D	-	Odd Number Counters Design
AND8002/D	-	Marking and Date Codes
AND8020/D	_	Termination of ECL Logic Devices
AND8066/D	-	Interfacing with ECLinPS
AND8090/D	_	AC Characteristics of ECL Devices

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PACKAGE DIMENS

DIM

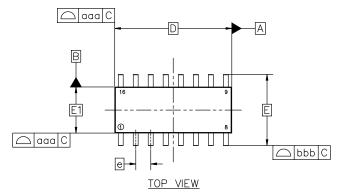
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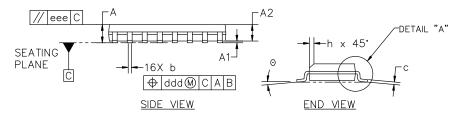
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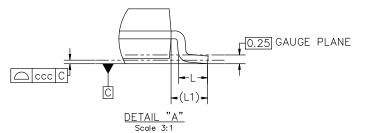
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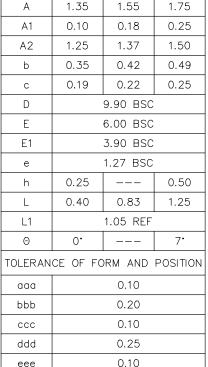
NOTES:

- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018.
- 2. DIMENSION IN MILLIMETERS. ANGLE IN DEGREES.
- 3. DIMENSIONS D AND E1 DO NOT INCLUDE MOLD PROTRUSION.
- 4. MAXIMUM MOLD PROTRUSION 0.15mm PER SIDE.
- DIMENSION & DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.127mm TOTAL IN EXCESS OF THE & DIMENSION AT MAXIMUM MATERIAL CONDITION.





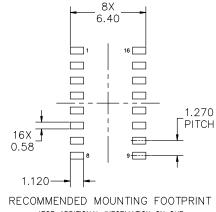




MILLIMETERS

NOM

MIN



\*FOR ADDITIONAL INFORMATION ON OUR PB-FREE STRATEGY AND SOLDERING DETAILS, PLEASE DOWNLOAD THE onsemi SOLDERING AND MOUNTING TECHNIQUES REFERENCE MANUAL, SOLDERRM/D

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#### SOIC-16 9.90x3.90x1.37 1.27P CASE 751B ISSUE M

#### DATE 18 OCT 2024

## GENERIC MARKING DIAGRAM\*

16	A	H	A.	- A	R	A	A	Æ
		XX)	XX	X	XX	XX	XX	G
		XX	XX)	XX	XX	XX)	XX	x
	0		A١	NĽ	YW	/W		
1	H	Н	Н	Н	Н	H	H	Ъ

XXXXX = Specific Device Code

= Assembly Location

- WL = Wafer Lot
- Y = Year

А

- WW = Work Week
- G = Pb-Free Package

\*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "•", may or may not be present. Some products may not follow the Generic Marking.

STYLE 1:		STYLE 2:		STYLE 3:	c	TYLE 4:	
PIN 1.	COLLECTOR	PIN 1.	CATHODE	PIN 1.		PIN 1.	COLLECTOR, DYE #1
	BASE	2.	ANODE	2.	BASE. #1	2.	
3.	EMITTER	3.	NO CONNECTION	3.	EMITTER. #1	3.	
4.	NO CONNECTION	4.	CATHODE	4.	COLLECTOR. #1	4.	
5.	EMITTER	5.	CATHODE	5.	COLLECTOR, #2	5.	
6.	BASE	6.	NO CONNECTION	6.	BASE, #2	6.	
7.	COLLECTOR	7.		7.	EMITTER, #2	7.	
8.	COLLECTOR	8.		8.		8.	
	BASE	9.	CATHODE		COLLECTOR, #3	9.	
	EMITTER	10.	ANODE		BASE, #3		EMITTER, #4
	NO CONNECTION	11.			EMITTER. #3		BASE. #3
	EMITTER		CATHODE		COLLECTOR, #3		EMITTER, #3
13.	BASE	13.	CATHODE	13.	COLLECTOR, #4	13.	BASE, #2
14.	COLLECTOR	14.	NO CONNECTION	14.	BASE, #4	14.	EMITTER, #2
15.	EMITTER	15.	ANODE	15.	EMITTER, #4	15.	BASE, #1
16.	COLLECTOR	16.	CATHODE	16.	COLLECTOR, #4	16.	EMITTER, #1
STYLE 5:		STYLE 6:		STYLE 7:			
PIN 1.	DRAIN, DYE #1	PIN 1.	CATHODE	PIN 1.	SOURCE N-CH		
2.	DRAIN, #1	2.	CATHODE	2.	COMMON DRAIN (OUTPUT)		
3.	DRAIN, #2	3.	CATHODE	3.			
4.	DRAIN, #2	4.	CATHODE	4.			
5.	DRAIN, #3	5.	CATHODE	5.	COMMON DRAIN (OUTPUT)		
6.	DRAIN, #3	6.	CATHODE	6.	COMMON DRAIN (OUTPUT)		
7.	DRAIN, #4	7.	CATHODE	7.	COMMON DRAIN (OUTPUT)		
8.	DRAIN, #4	8.	CATHODE	8.	SOURCE P-CH		
9.	GATE, #4	9.	ANODE	9.	SOURCE P-CH		
10.	SOURCE, #4	10.	ANODE	10.	COMMON DRAIN (OUTPUT)		
11.	GATE, #3	11.	ANODE	11.	COMMON DRAIN (OUTPUT)		
12.	SOURCE, #3	12.	ANODE	12.	COMMON DRAIN (OUTPUT)		
13.	GATE, #2	13.	ANODE	13.	GATE N-CH		
14.	SOURCE, #2		ANODE	14.	COMMON DRAIN (OUTPUT)		
15.	GATE, #1	15.	ANODE	15.	COMMON DRAIN (OUTPUT)		
16.	SOURCE, #1	16.	ANODE	16.	SOURCE N-CH		

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