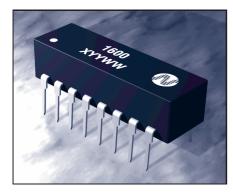


1600 SERIES

Dual and Quad Data-bus Isolators



FEATURES

- Logic Translation
- Bi-Directional
- Invert / Non-Invert
- TTL-CMOS Convert
- 3V-5V convert
- Toroidal construction
- Low Profile
- Dual or Quad packs
- 700VDC Isolation

DESCRIPTION

TThe 1600 series are dual or quad isolation transformer packs for use in digital circuits. They are particularly suited to isolating microprocessor bus connections and performing logic level translation. Being completely passive, power savings are offered over opto-coupled or emitter follower solutions.

SELECTION GUIDE								
Order Code	Туре	Function	c. Pulse Width ^(C) (max)	Turns Ratio	Brimary ⊥ IokHz, 250mV	다 Interwinding 다 Capacitance (typ) 100kHz	Package Style	
1600	Quad Isolator	5V to 5V Logic Isolation	5	1:1	3	60	2	
1601	Dual Isolator	5V to 5V Logic Isolation	5	1:1	3	60	1	
1620	Quad Isolator	5V to 10V Logic Isolation	3.4	1:2	1.5	45	2	
1621	Dual Isolator	5V to 10V Logic Isolation	3.4	1:2	1.5	45	1	
1630	Quad Isolator	5V to 15V Logic Isolation	2.6	1:3	1	34	2	
1631	Dual Isolator	5V to 15V Logic Isolation	2.6	1:3	1	34	1	
1635	Quad Isolator	3.3V to 5V Logic Isolation	5	1:1.5	2	40	2	
1636	Dual Isolator	3.3V to 5V Logic Isolation	5	1:1.5	2	40	1	

SWITCHING CHARACTERISTICS, 5V LOGIC

Parameter	Conditions	MAX	Units
Propagation delay, t _{PD}	LSTTL Buffer drive	5.0	ns
Low-level pulse width ¹ , t _{LPW}	Other terminal to VCC	5.0	µs
High-level pulse width ¹ , t _{HPW}	Other terminal to GND	5.0	μs

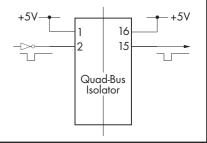
ABSOLUTE MAXIMUM RATINGS

Operating free air temperature range	0°C to 70°C		
Storage temperature range	–40°C to 125°C		
Lead Temperature 1.5mm from case for 10 seconds	300°C		
Isolation voltage (flash tested for 1 second)	700VDC		
Insulation resistance at 500VDC	>10GΩ		

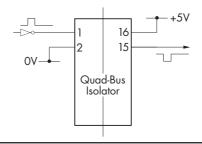
NON-INVERTED +VE GOING PULSE

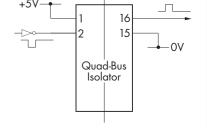
→ OV → Quad-Bus Isolator

NON-INVERTED -VE GOING PULSE



INVERTED +VE GOING PULSE



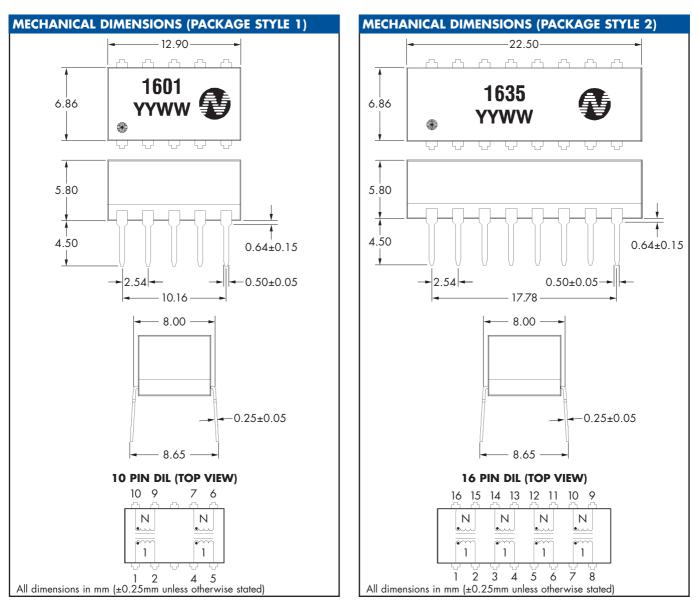


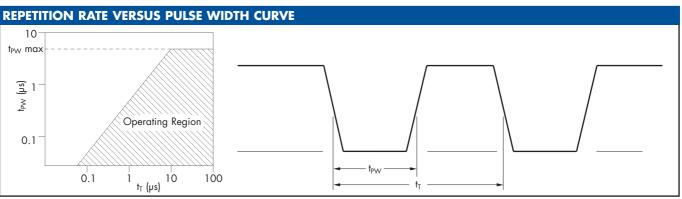
www.cdpoweronline.com

1 The maximum pulse width limit to be applied to the repetition curve. All specifications typical at $T_{\rm A}$ =25°C

1600 SERIES

Dual and Quad Data-bus Isolators





C&D Technologies (NCL) Limited reserve the right to alter or improve the specification, internal design or manufacturing process at any time, without notice. Please check with your supplier or visit our web site to ensure that you have the current and complete specification for your product before use. NMP 1600.2

 $\ensuremath{\textcircled{O}}$ C&D Technologies (NCL) Limited 2000

No part of this publication may be copied, transmitted or stored in a retrieval system or reproduced in any way including, but not limited to, photography, photocopy, magnetic or other recording means, without prior written permission from C&D Technologies (NCL) Limited.

Instructions for use are available from www.cdpoweronline.com

C&D Technologies (NCL) Ltd

Tanners Drive, Blakelands North Milton Keynes MK14 5BU, England Tel: +44 (0)1908 615232 Fax: +44 (0)1908 617545 email: info@cdtechno-ncl.com

www.cdpoweronline.com

C&D Technologies Inc.

3400 E Britannia Drive, Tucson, Arizona 85706, USA Tel: +1 (800) 547-2537 Fax: +1 (520) 741-4598 email: sales@cdtechno.com

