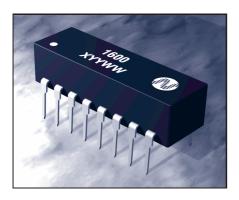
Power Solutions

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

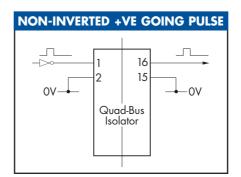
The 1600 series are dual or quad isolation transformer packs for use in digital circuits. They are particularly suited to isolating microprocessor bus connections and performing logic level translation.

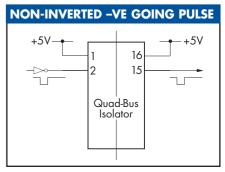
Being completely passive, power savings are offered over opto-coupled or emitter follower solutions.

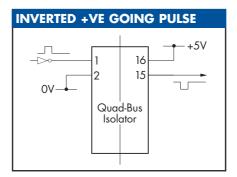
SELECTION GUIDE								
Order Code	Туре	Function	c Pulse Width S (max)	Turns Ratio	Primary B Inductance (typ) T IOKHz, 250mV	Interwinding 다 Capacitance (typ) 100kHz	Package Style	
1600	Quad Isolator	5V to 5V Logic Isolation	5	1:1	3	60	2	
1601	Dual Isolator	5V to 5V Logic Isolation	5	1:1	3	60	1	
1620	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	

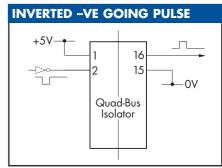
SWITCHING CHARACTERISTICS, 5V LOGIC								
Parameter	Conditions	MAX	Units					
Propagation delay, t _{PD}	LSTTL Buffer drive	5.0	ns					
Low-level pulse width ¹ , t _{LPW}	Other terminal to VCC	5.0	μs					
High-level pulse width ¹ , t _{HPW}	Other terminal to GND	5.0	μs					

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







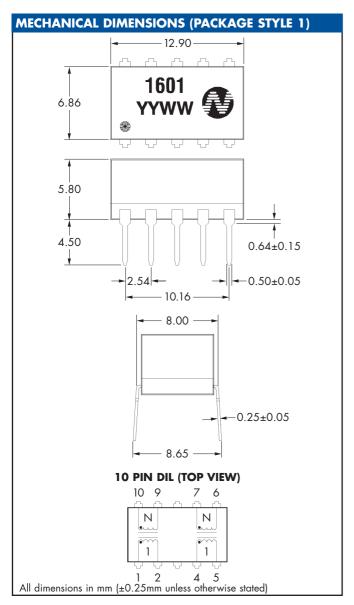


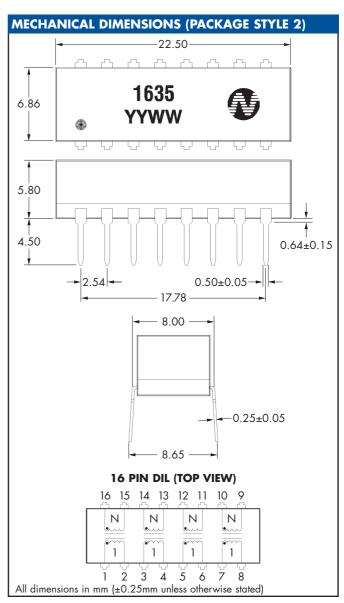
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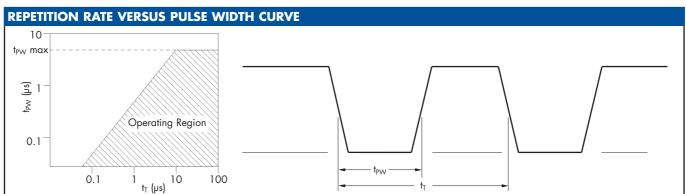
1 The maximum pulse width limit to be applied to the repetition curve. All specifications typical at $T_{\rm A}$ =25°C

1600 SERIES

Dual and Quad Data-bus Isolators







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