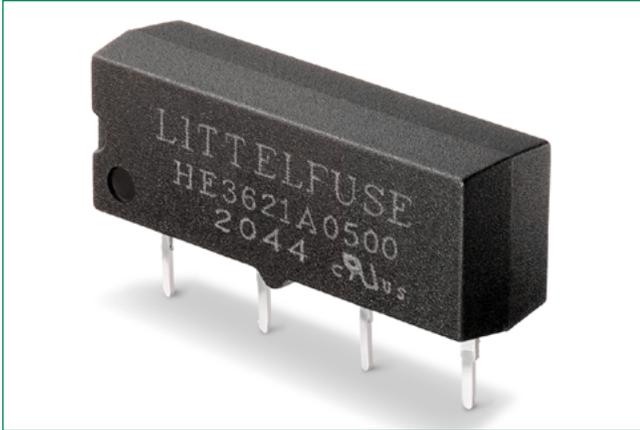


# HE3600

## Miniature Single In-line Reed Relay



### Description

The HE3600 is a miniature reed relay in a SIL package with a normally open contacts capable of switching up to 200Vdc at 10W. It is available with 5V, 12V, and 24V coils and has external magnetic shield and diode suppressed coil options.

### Features & Benefits

- Sub-miniature size and single in line configuration allows very high packing densities, minimizing space and cost
- Transfer molded package gives maximum component protection
- Lower power coil consumption than competing electromechanical devices
- Hermetically sealed switching contact is immune to the effects of its environment
- Miniature single in-line package
- Optional coil suppression diode to protect coil drive circuits
- Normally open contact version
- RoHS Compliant
- External magnetic shield option
- Diode suppression option
- UL Recognized to UL 508 as an Industrial Control Switch

### Agency Approvals

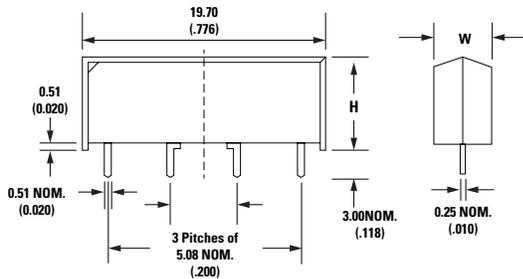
Agency	Agency File Number
	E47258

**Note:** Not all parts are UL Recognized. Contact Littelfuse for specific parts and agency approval ratings.

### Dimensions

Dimensions in mm (inch)

Relay Type	Body Type	L	W	H
HE3600	Transfer Molded	19.05 (.750)	5.08 (.200)	7.45 (.293)
	External Shield	19.70 (.776)	5.65 (.222)	7.87 (.310)



### Applications

- Security Systems
- Telecom Equipment
- Process Control Systems
- Automatic Test Equipment
- Instrumentation

# HE3600

## Miniature Single In-line Reed Relay

**Table 2**  
**Electrical and Operating Characteristics @ 25°C**

Characteristics			Contact Type
			Form A SPST-NO Standard
			Relay Type
			HE3621A
Contact Rating <sup>1</sup>	Power, Switching	Watt - Max.	10
	Voltage, Switching <sup>2</sup>	Vdc - Max.	200
		Vac - Max.	140
	Current, Switching <sup>3</sup>	Adc - Max.	0.5
Aac - Max.		0.35	
Voltage Hold-off <sup>4</sup>	Current, Carry	Adc - Max.	1.2
		Across Open Contacts	Vdc - Min.
	Contacts to Coil	Vac - Min.	1500
		Between Isolated Terminals	Vac - Min.
Resistance	Contact, Initial	Ω Max.	0.150
	Insulation Across Open Contacts	Ω Min.	10 <sup>10</sup>
	Insulation Between Isolated Terminals	Ω Min.	10 <sup>10</sup>
Timing	Operate Time	ms - Max.	1.0
	Release Time	ms - Max.	1.0
Environmental	Temperature, Operating	°C	-40 to +85
	Temperature, Storage <sup>5</sup>	°C	-40 to +105
	Vibration Resistance	G - Max. 10-2000 Hz.	20
	Shock Resistance	G - Max. 11 ms ½ sine	50

**Notes:**

1. Contact rating - Product of the switching voltage and current should never exceed the wattage rating. Contact Littelfuse for additional load/lofe information.
2. When switching inductive and/or capacitive loads, the effects of transient voltages and/or currents should be considered. Refer to Application Notes AN108A & AN107 for details.
3. Electrical Load Life Expectancy - Contact Littelfuse with voltage current values along with type of load.
4. Breakdown Voltage - Per MIL-STD-202, Method 301.
5. Storage Temperature - Long time exposure at elevated temperature may degrade solderability of the leads.

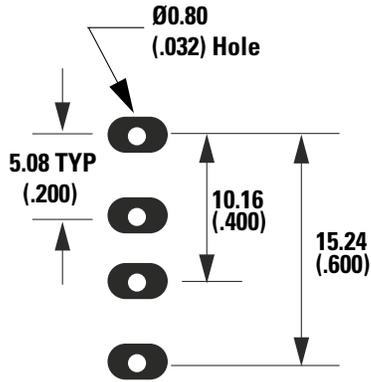
**Table 3**  
**Coil Characteristics @ 25°C**

Contact Form & Type	Electrical & Operating Characteristics	Dimensions	Part Number	Nominal Coil Voltage Vdc	Coil Resistance ±10% Ohms	Must Operate Vdc	Must Release Vdc	Maximum Coil Voltage Vdc	Top View 2.54mm (0.1") Grid Dot on Case: Pin 1 Numbers not printed on case.
1A SPST-NO	See Table 2	See Table 1	HE3621A0500	5	500	3.75	0.5	14	
			HE3621A1200	12	1000	8.0	1.0	22	
			HE3621A2400	24	2150	16.0	2.0	31	

# HE3600

## Miniature Single In-line Reed Relay

**HE3600 PCB Layout**  
(Bottom View)



### Part Numbering System

**HE3600 - X - XX - XX**

**Model Number**  
HE3621 - Standard

**Contact Type**  
A - Form A (SPST-NO)

**Standard Coil**  
05 - 5 Volt  
12 - 12 Volt  
24 - 24 Volt

**General Options**  
00 - No Options  
10 - Diode Suppressed Coil  
40 - External Magnetic Shield  
50 - Ext. Magnetic Shield & Diode

**Note:** Not all combinations of Part Number suffixes are available. Contact Littelfuse for details.

### Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
Bulk	Bulk	5367/5600	N/A	N/A

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