

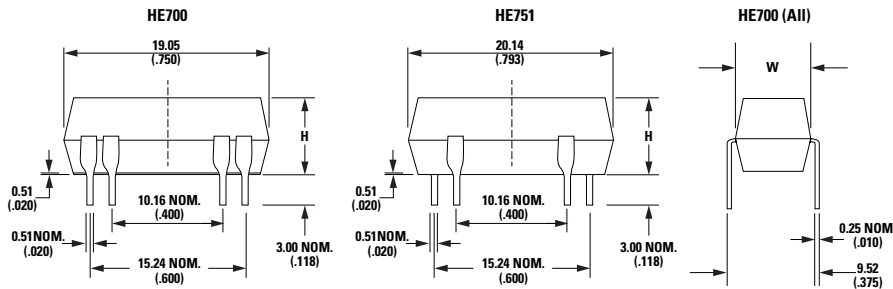
# HE700

## Miniature Dual In-line Reed Relay

### Dimensions

Dimensions in mm (inch)

Relay Type	Body Type	L	W	H
HE700	Transfer Molded	19.05 (.750)	7.22 (.284)	5.50 (.217)
	External Shield	20.14 (.793)	7.62 (.300)	5.82 (.229)



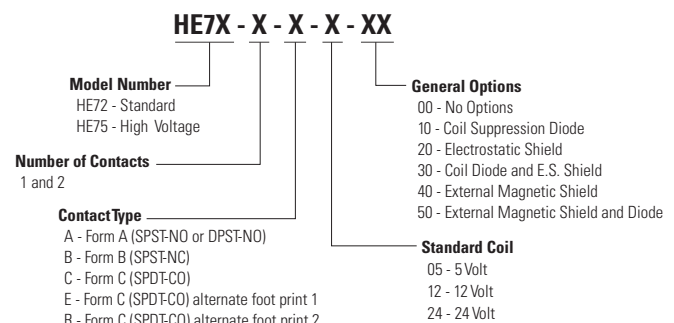
**Table 2: Electrical and Operating Characteristics @ 25°C**

Characteristics			Contact Type			
			Form A SPST, DPST Standard	Form C SPDT-CO Standard	Form A SPST High Voltage	Form B SPST-NC Standard
			Relay Types			
			HE721, HE722	HE721C/E/R	HE751	HE721
Contact Rating <sup>1</sup>	Power, Switching	Watt - max.	10	5	10	10
	Voltage, Switching <sup>2</sup>	Vdc - max.	200	175	300	200
		Vac - max.	140	120	265	140
	Current, Switching <sup>3</sup>	Adc - max.	0.5	0.25	0.5	0.5
Aac - max.		0.35	0.18	0.35	0.35	
Current, Carry	Adc - max.	1.2	1.5	1.2	1.5	
	Across Open Contacts	Vdc/Vac Peak - min.	250	200	450	250
Contacts to Coil	500		500	4000	500	
Coil to E. Shield	150		150	N/A	N/A	
Between Isolated Terminals	500		N/A	N/A	N/A	
Resistance	Contact, Initial	Ω max.	0.150	0.200	0.150	0.150
	Insulation Across Open Contacts	Ω min.	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>10</sup>
		Insulation Between Isolated Terminals	Ω min.	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>10</sup>
Timing	Operate Time	ms - max.	1.0	3.0	1.0	1.0
	Release Time	ms - max.	1.0	3.0	1.0	1.0
Environmental	Temperature, Operating	°C	-40 to +85	-40 to +85	-20 to +85	-40 to +85
	Temperature, Storage <sup>5</sup>	°C	-40 to +105	-40 to +105	-40 to +105	-40 to +105
	Vibration Resistance	G - max. 10-2000 Hz.	20	20	20	20
	Shock Resistance	G - max. 11 ms ½ sine	50	50	50	50

**Notes:**

- Contact rating - Product of the switching voltage and current should never exceed the wattage rating. Contact Littelfuse for additional load/lofe information.
- 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.
- Electrical Load Life Expectancy - Contact Littelfuse with voltage current values along with type of load.
- Breakdown Voltage - Per MIL-STD-202, Method 301.
- Storage Temperature - Long time exposure at elevated temperature may degrade solderability of the leads.

### Part Numbering System



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

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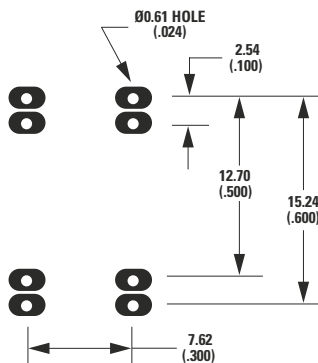
**Table 3: Coil Characteristics @ 25°C**

Contact Form	Electrical and 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 Column 1	Figure 1	HE721A0500	5	500	3.75	0.5	12	
			HE721A1200	12	1000	8.0	1.0	31	
			HE721A2400	24	2150	16.0	2.0	46	
1B SPST-NC	See Table 2 Column 4	Figure 1	HE721B0500	5	500	3.75	0.5	6.5 <sup>1,2</sup>	
			HE721B1200	12	500	9.0	1.0	14 <sup>1,2</sup>	
			HE721B2400	24	2150	18.0	2.0	28 <sup>1,2</sup>	
1C SPDT-CO	See Table 2 Column 2	Figure 1	HE721C0500	5	200	3.75	0.5	14	
			HE721C1200	12	500	8.0	1.0	22	
			HE721C2400	24	2000	16.0	2.0	44	
1C SPDT-CO	See Table 2 Column 2	Figure 1	HE721E0500	5	200	3.75	0.5	14	
			HE721E1200	12	500	8.0	1.0	22	
			HE721E2400	24	2000	16.0	2.0	44	
1C SPDT-CO	See Table 2 Column 2	Figure 1	HE721R0500	5	200	3.75	0.5	14	
			HE721R1200	12	500	8.0	1.0	22	
			HE721R2400	24	2000	16.0	2.0	44	
2A DPST-NO	See Table 2 Column 1	Figure 1	HE722A0500	5	200	3.75	0.5	12	
			HE722A1200	12	500	8.0	1.0	22	
			HE722A2400	24	2150	16.0	2.0	46	
1A SPST-NO High Voltage	See Table 2 Column 3	Figure 2	HE751A0500	5	500	3.75	0.5	12	
			HE751A1200	12	1000	8.0	1.0	31	
			HE751A2400	24	2150	16.0	2.0	46	

**Notes:**

- HE721B - Exceeding recommended voltage may cause contact reclosure.
- Optional external magnetic shield not available on Form B relays.

### HE700 PCB Layout (Bottom View)



### Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
Bulk	Bulk	1000/5000	N/A	N/A

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