

# 1EH-16A

## High Frequency Relay



### PRODUCT DESCRIPTIONS

1EH-16 A enables higher RF performance, up to 13GHz. This relay was developed for the ATE industry's demand, and is able to correspond to ATE loads 2X and 3X.

- RF Performance up to 13GHz
- Impedance 50Ω
- Reliability over 300 Million Operations Minimum
- 1 Form A / Axial only

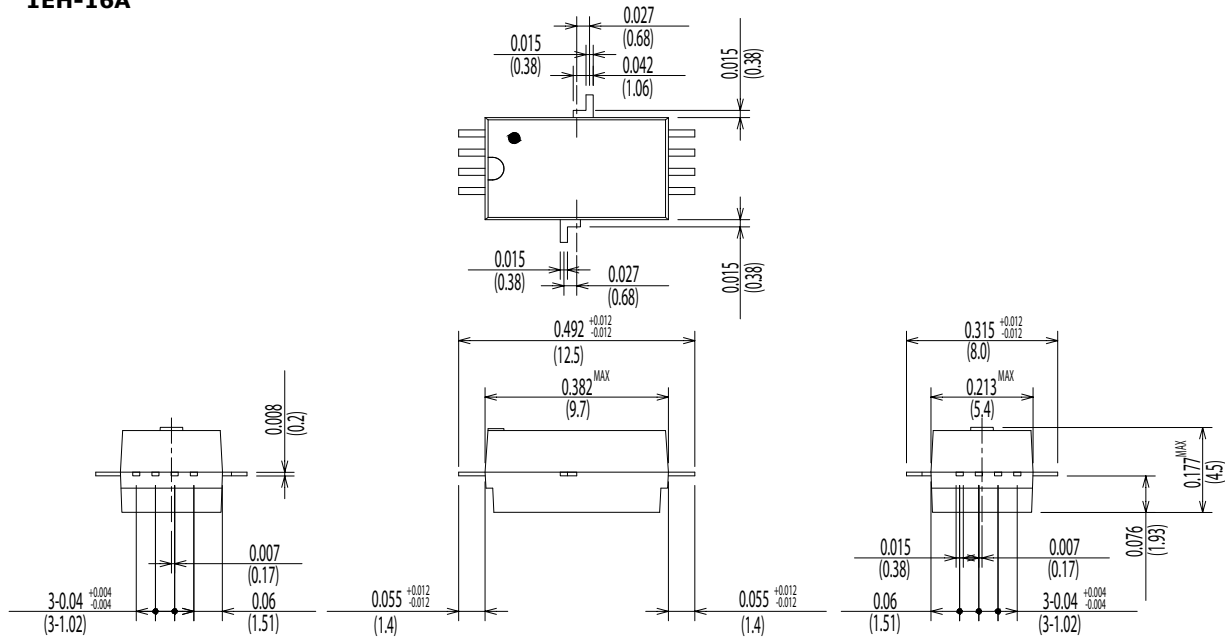
### SPECIFICATIONS



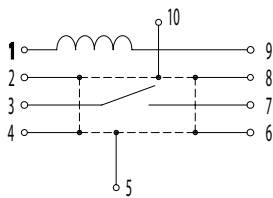
<b>1EH-16A</b>		<b>1EH-16A</b>	
Parameters	Units	1 Form A	Test Conditions
<b>Coil Specifications</b>			
Nominal Coil Voltage	VDC	5.0	±10% @ 20°C @ 20°C @ 20°C
Coil Resistance	Ω	80	
Operate Voltage	VDC Max	3.75	
Release Voltage	VDC Min	0.7	
<b>Contact Ratings</b>			
Switching Voltage	Volts	100	Max DC/Peak AC resistance
Switching Current	Amps	0.5	Max DC/Peak AC resistance
Carry Current	Amps	1.0	Max DC/Peak AC resistance (@ 30°C)
Contact Rating	Watts	10	Max DC/Peak AC resistance
Life Expectancy	x10 <sup>5</sup> Cycle	300	@ 1V 10mA
Contact Resistance	mΩ	150	Max initial @ operate voltage
Contact Resistance Stability	mΩ	5.0	Max initial @ operate voltage
<b>Relay Specifications</b>			
Insulation Resistance	Ω Min	10 <sup>11</sup>	Between all isolated pins @ 100V 20°C 65%RH
Dielectric Strength	VDC Min	250	Between contacts
	VDC Min	250	Contacts to shield
	VDC Min	250	Contacts/Shield to coil
Operate Time (Including Bounce)	msec Max	0.25	@ nominal coil voltage 100 Hz square wave
Release Time	msec Max	0.05	Diode suppression
<b>Measurement Reference Conditions</b>		<b>Environmental Ratings</b>	
Temp: 15°C to 35°C Humidity: 25% to 75%RH Atmospheric Pressure: 860 to 1060hpa		Storage temp: -40°C to +85°C Operate temp: -20°C to +80°C Vibration: 20G's to 2000Hz Shock: 50G's Processing temp: 260°C max for 60sec. dwell time	

**Dimensions All Dimensions are inches (mm)**

**1EH-16A**



**Schematic <Top View>**



**Land Pattern Recommendation**

