1H Low Profile Series

Miniature Surface Mount

PRODUCT DESCRIPTIONS

Development philosophy with inherited reliability and assembly capacity of the 1H Series was put into succesison of the 1H Low Profile Series. Gull-Wing and J-Lead achieved low height of 3.6mm. This series is already in mass production for the ATE, telecommunications, and other instrument markets with great acceptance for low height and reliability.

SPECIFICATIONS

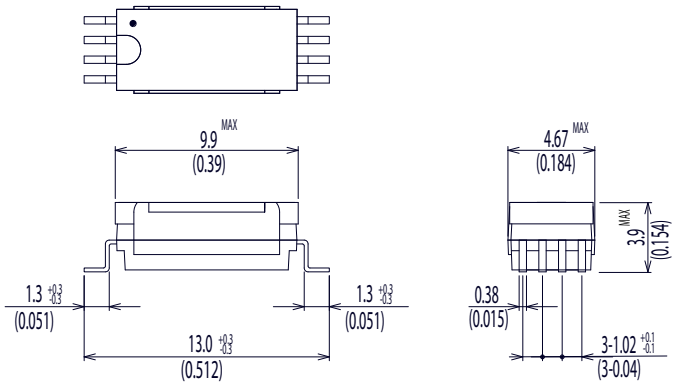
RoHS COMPLIANT

1H Low Profile		1H-54G-70 1H-54J-70	1H-14G-70 1H-14J-70	
Parameters	Units	1 Form A		Test Conditions
Coil Specifications				
Nominal Coil Voltage	VDC	3.3	5.0	
Coil Resistance	Ω	80	150	±10% @ 20°C
Operate Voltage	VDC Max	2.8	3.75	@ 20°C
Release Voltage	VDC Min	0.5	0.7	@ 20°C
Contact Ratings				
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	x10^6 Cycle	300		@ 1V 10mA
Contact Resistance	mΩ	150		Max initial @ operate voltage
Contact Resistance Stability	mΩ	5.0		Max initial @ operate voltage
Relay Specifications				
Insulation Resistance	Ω Min	10^{12}		Between all isolated pins @ 100V 20°C 65%RH
Dielectric Strength (Static)	VDC Min	200		Between contacts
	VDC Min	1500		Contacts to shield
	VDC Min	1500		Contacts/Shield to coil
Operate Time (Including Bounce)	msec Max	0.3		@ nominal coil voltage 100 Hz square wave
Release Time	msec Max	0.05		Diode suppression

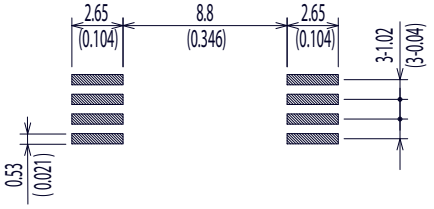
Measurement Reference Conditions	Environmental Ratings
Temp: 15°C to 35°C Humidity: 25% to 75%RH Atmospheric Pressure: 860 to 1060hpa	Storage temp: -40°C to +85°C Operate temp: -20°C to +80°C Vibration: 20G's to 2000Hz Shock: 50G's Processing temp: 260°C max for 60sec. dwell time

Dimensions **All Dimensions are mm (inch)**

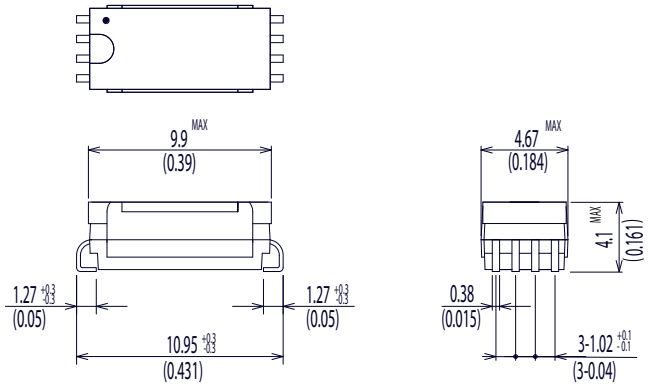
1H-54G-70/1H-14G-70

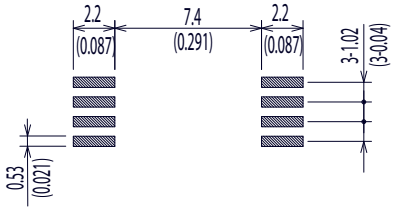


Land Pattern Recommendation



1H-54J-70/1H-14J-70





Schematic <Top View>