# Single Port USB Isolators

**UH401 Series** 



Powered by





#### **PRODUCT FEATURES**

- 15 kV ESD Protection
- -40 to 80°C Operating Temperature
- High Retention USB Connectors
- Ultra-Compact
- USB Bus Powered
- USB Cable Included

At just 2.0 x 1.7 x 0.8 inches, these litle isolators pack a powerful punch against electrical noise, surges and spikes - up to 4kV isolation. Protect expensive PCs and equipment from damaging electrical storms, power surges and other high EMI/RFI disturbances. This isolation barrier eliminates ground loops which are disruptive in measurement applications.

UH401 and UH401SL provide 4 kV isolation.

UH401-2KV and UH401SL-2KV provide 2kV isolation.

All models are USB bus powered and provide up to 100mA of current to attached downstream devices when they are attached to a full power (500 mA) USB host port.

Protecting Laptops on Field Service Calls Industry: Industrial Automation Product: USB Isolators

www.bb-elec.com/USBField
UH401, UH401-2KV
Carrier data charges may apply.

These data rates are preconfigured at the factory. You should select a model that is appropriate for your USB peripheral (low speed or full speed). Note that high speed (480 Mbps) cannot be isolated with exisiting technology.

Four models are available. Select a low speed version, UH401SL or UH401SL-2KV, if you are using a low speed device. Low speed devices are typically human interface devices such as a mouse or keyboard. Use the full speed version, UH401 or UH401-2KV for full speed USB devices.

### **ORDERING INFORMATION**

MODEL NUMBER	USB SPEED	ISOLATION
UH401	Full (12 Mbps)	4 kV
UH401SL	Low (1.5 Mbps)	4 kV
UH401-2KV	Full (12 Mbps)	2 kV
UH401SL-2KV	Low (1.5 Mbps)	2 kV



#### IN THE FIELD

USB Isolation in Medical Applications

Industry: Industrial Automation Product: USB Isolators



www.bb-elec.com/ USBMedical

UH401, UH401-2KV

Carrier data char

## Single Port USB Isolators

**UH401 Series** 

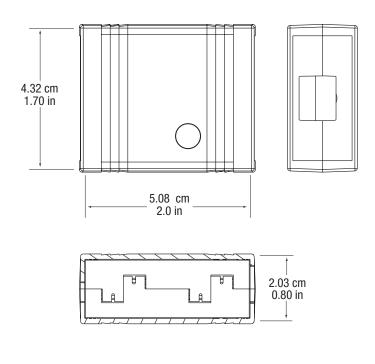


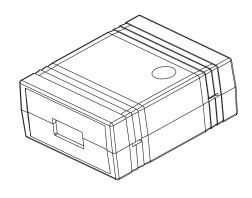
#### **SPECIFICATIONS**

TEOLINOI COV			
TECHNOLOGY			
Standards	USB 1.1, 12 Mbps (UH401 & UH401-2KV) or 1.5 Mbps (UH401SL & UH401SL-2KV)  Note: These devices are transparent to the operating system, require no software drivers and will not be enumerated in device manager.		
INTERFACE			
USB Ports	High Retention USB Type B (Upstream) , Type A (Downstream), Minimum withdrawal force of 15 Newtons (~3.4 lbs-force)		
LED Indicators	Power from USB bus		
POWER			
Input Voltage	Standard USB bus power (5VDC)		
Downstream Power Provided	Up to 100mA with full power upstream connection		
Isolation UH401-2KV Isolation UH401SL-2KV Isolation UH401 Isolation UH401SL	2KV 2KV, 4KV 4KV		

ENVIRONMENTAL		
Operating Temperature	-40 to 80° C (-40 to 176° F)	
MTBF	1,049,851 hours	
MTBF Calculation	MIL 217F Parts count reliability prediction	
MECHANICAL		
Enclosure	IP30 plastic case	
Dimensions	4.32 x 5.08 x 2.03 cm (1.7 x 2.0 x 0.8 in)	
APPROVALS/CERTIFICATIONS		
Emissions FCC C	lass A, CISPR Class A (EN55022)	
EN61000-6-2:2005 (Heavy Industry) EN61000-4-2:2008 (ESD +/-8kV Contact, +/-15kV Air EN61000-4-3:2006 (RI) 10V/m, 80-1000MHz; 3V/m, 1.3 to 2.7 GHz CE EN61000-4-4:2004 (EFT Burst) +/-2kV DC ports; +/-1kV signal ports EN61000-4-5:2005 (Surge) +/-500V DC ports; +/-1kV signal ports EN61000-4-6:2005 (CI) 10Vrms, 0.15 to 80 MHz EN61000-4-8:2001 (Magnetic) 10A/m, 50Hz & 60Hz		

#### **MECHANICAL DIAGRAM**







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