**BB-UH401**

Single Port, Compact USB Isolator

### Features
- 4kV Isolation Protection for PCs, Laptops, Equipment
- 15 kV ESD Protection
- Full (12 Mbps) USB Speed
- Wide Operating Temperature: -40 to +80 °C
- Ultra-Compact Size with Quick Inline Installation
- High Retention USB Connectors
- USB Bus Powered
- USB Cable Included - 0.9 m length

### Specifications

#### Technology
- **Standards**
  - USB 1.1
  - 12 Mbps
  - Note: Device is transparent to operating system, software drivers not required, and will not be enumerated in device manager.

#### Interface
- **USB Ports**
  - High retention USB Type B (upstream),
  - High retention USB Type A (downstream),
  - Minimum withdrawal force of 15 Newtons (~1.54kg force)
- **LED Indicators**
  - Power for USB bus

#### Power
- **Input Voltage**
  - Standard USB bus power (5 Vdc)
- **Downstream Power**
  - Up to 100mA with full-power 500mA upstream connection
- **Isolation**
  - 4KV

#### Environmental
- **Operating Temperature**
  - -40 to +80 °C
- **Meantime Between Failures (MTBF)**
  - MTBF: 1049851 hours
  - MTBF Calculation: MIL 217F Parts Count Reliability Prediction

#### Mechanical
- **Enclosure**
  - IP30 plastic case
- **Dimensions**
  - 43.2 x 50.8 x 20.3 mm

#### Approvals, Directives, Standards
- **FCC Class A, CISPR 32, CE, KCC, MSIP ID#: MSIP-REI-AAD-BB-UH401**
- **CE – Directives**
  - 2014/30/EU – Electromagnetic Compatibility Directive
  - 2012/19/EU – Waste Electrical and Electronic Equipment Directive (WEEE)
- **CE – Standards**
  - EMC

### Ordering Information

<table>
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<tr>
<th>Model Number *</th>
<th>USB Speed</th>
<th>Isolation</th>
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<tbody>
<tr>
<td>BB-UH401</td>
<td>Full (12 Mbps)</td>
<td>4 KV</td>
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* Includes (1) one USB cable, Type A male/Type B male, 0.9 m (Model# BB-USBAMBM-3F)

**Accessories – sold separately**
- **BB-USBAMBM-3F**
  - USB Cable, 0.9 m, Type A Male/Type B Male (Grey)
  - (one included)
- **BB-USBAMBM-6F**
  - USB Cable, 1.8 m, Type A Male/Type B Male (Grey)

### Dimensions

Unit: mm