

FEATURES

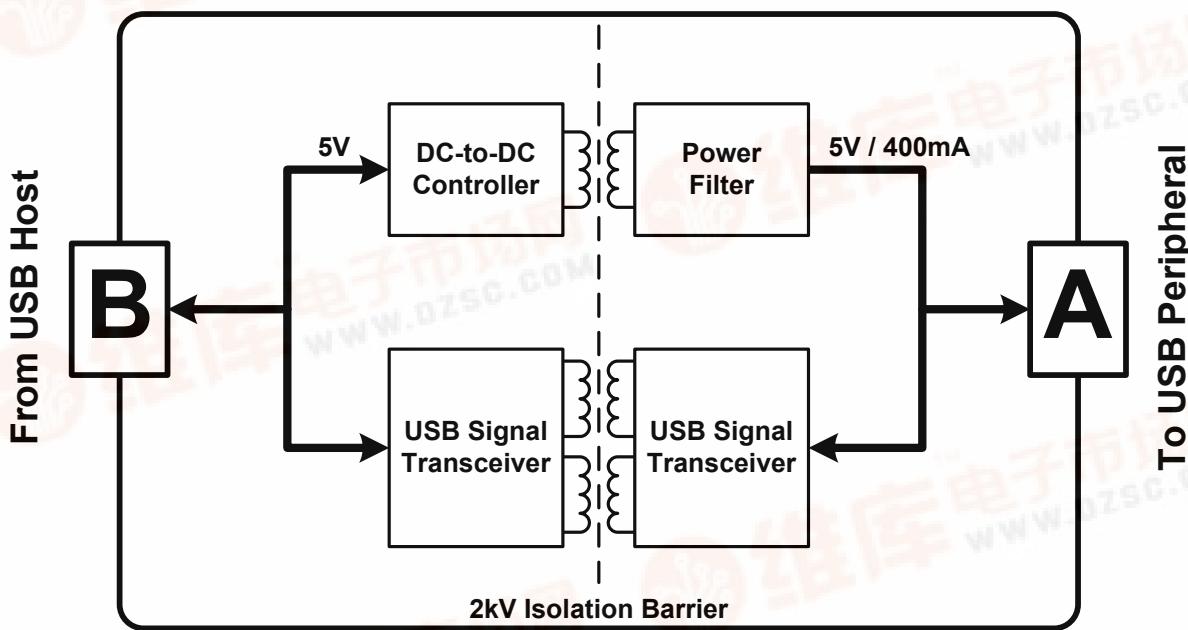
- Isolates a USB Peripheral from a USB Host
- Electrical Isolation up to 2000Vrms
- 5V Isolated Pass-thru Power up to 400mA
- No External Power Supply Required
- Supports USB 2.0 Full-Speed Data Rates
- Uses Standard USB A/B Cables
- No Configuration Required
- No Software or Drivers Required
- Invisible to the Host and Peripheral

GENERAL DESCRIPTION

The Keterex USB-150 Full Speed USB Isolator provides galvanic isolation between a USB peripheral and a USB host. The Isolator is connected between the host and peripheral using standard USB cables – no other software or configuration is required. In addition, the USB-150 provides an isolated 5V supply to the downstream peripheral device at up to 400mA.

The USB-150 is used in applications where either the peripheral device operates at a different ground potential than the host or where supply noise from the host needs to be eliminated. Any full-speed USB device can be isolated using the USB-150 and standard USB cables.

Keterex USB-150 Block Diagram



USB-150 Full Speed USB Isolator

[查询USB-150供应商](#)

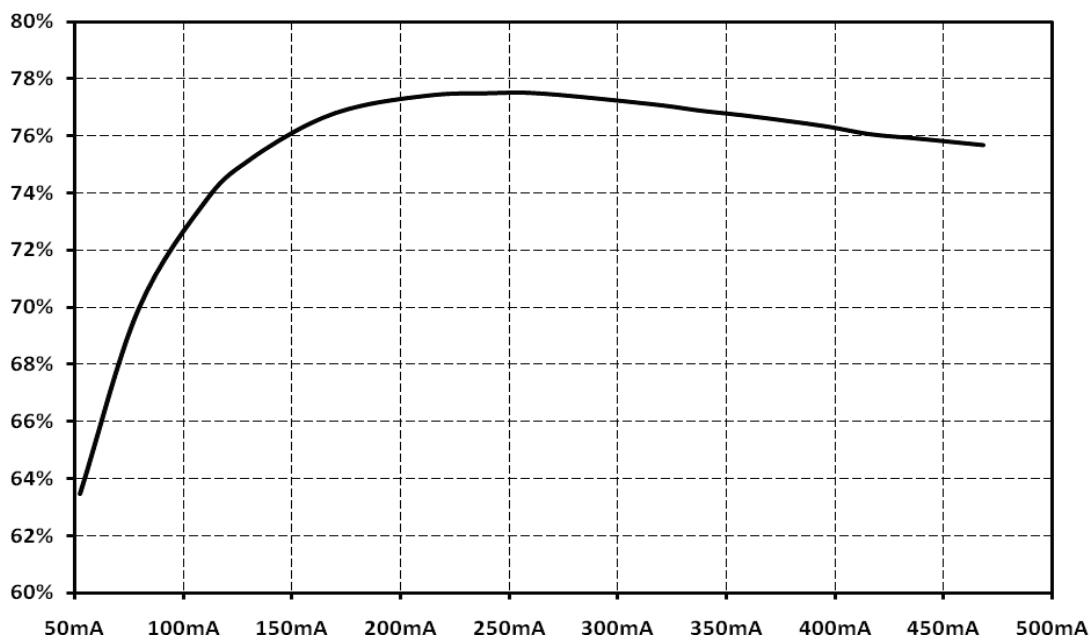
PERFORMANCE CHARACTERISTICS

Conditions unless otherwise noted: $4.75V \leq \text{Upstream VBUS} \leq 5.25V$, 25°C

| PARAMETER | TEST CONDITIONS | MIN | TYP | MAX | UNITS |
|-----------------------------------|--|------|-----------|------|---------------------------|
| Electrical Isolation ¹ | Duration = 1 minute | 2000 | | | V |
| Downstream VBUS | Load $\leq 400\text{mA}$ | 4.75 | | 5.25 | V |
| VBUS Short-circuit Duration | | Inf. | | | sec |
| Downstream VBUS Ripple | Load = 100mA | | ± 0.2 | | % |
| | Load = 400mA | | ± 1.0 | | % |
| Common-Mode Transient Immunity | $V_{CM} = 1\text{kV}$; $V_{TRAN} = 800\text{V}$ | 25 | 35 | | $\text{kV}/\mu\text{sec}$ |

¹Tested by applying 2250V for 1 sec

Typical VBUS Efficiency vs. Downstream Current



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