

RI 4184 Dual and RI 4185 Single USB 2.0 480 Mbps feedthru filter

Panel mountable USB 2.0 480 Mbps feedthru filter for up to 2 Ampere supply

Features:

- USB 2.0 Hi-Speed 480 Mbps filters
- Filtered USB device power feedthru, 2 A
- Fully USB 2.0 Hi-Speed 480 Mbps compatible
- 50 dB filter suppression, 0.5-26.5 GHz
- Panel mountable

Overview

The Ranatec RI 4184 and RI 4185 are high performance feedthru filters for all types of applications where USB signals need to be fed thru a shielded wall.

Application

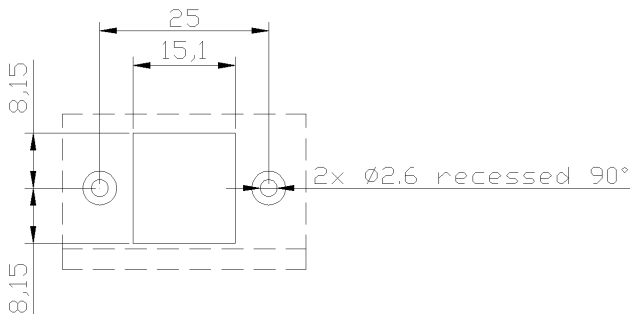
It is primarily designed to fit into Ranatec's RI 180 series shield boxes, but can be used separately.

Electrical interfaces

The physical connectors are located at each end of RI 4184 and RI 4185. The filters are reciprocal, which means the USB host can be attached to any of the connectors. RI 4184 can supply two USB devices with up to 2 A each, and RI 4185 can supply one USB device with up to 2 A.

Mechanical interface

RI 4184 and RI 4185 is prepared for panel mounting with two threaded M2.5 screwholes on the front. It is delivered with an EMC shielding gasket for simple and reliable mounting.



Recommended panel cut-out
Dimensions in mm.

RI 4184 and RI 4185 panel drawing

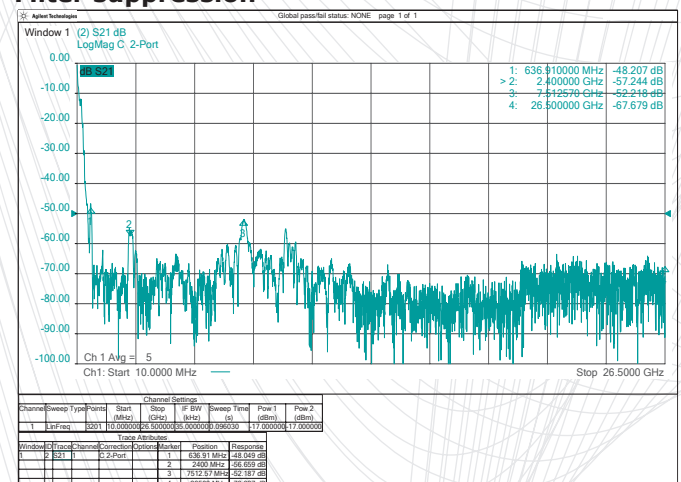


Ranatec RI 4185 is a single and RI 4184 is a dual USB 2.0 Hi-Speed 480 Mbps panel mountable feedthru filter with very good filter suppression performance over all mobile frequency bands.

Specifications

- Attenuation 0.5 - 26.5 GHz >50 dB typical
- USB device current feedthru 2 A max per channel
- Connectors front (RI 4184) Double USB Form A, Rectangle (F)
- Connectors front (RI 4185) Single USB Form A, Rectangle (F)
- Connectors back (RI 4184) Double USB Form A, Rectangle (F)
- Connectors back (RI 4185) Single USB Form A, Rectangle (F)
- Material Aluminium
- Dimensions (WxDxH) 36x71x22 mm
- Weight (standard config) 90 g

Filter suppression



RI 4184 and RI 4185 typical filter suppression

Ordering

- RI 4184 Dual USB 2.0 480 Mbps feedthru filter, 2 A
- RI 4185 Single USB 2.0 480 Mbps feedthru filter, 2 A