

EMI Filtered USB Connectors Series USB-F



Electrical Specifications

Operating Temperature -55°C to +125°C
 Working Voltage 5 VDC
 Current Rating 1 Amp max.
 Contact Resistance 30 mΩ max.
 Temperature Range -40°C to +71°C

Capacitive Filtered

Capacitance 100pF
 Dielectric withstand voltage 125vDC

Inductive Filtered

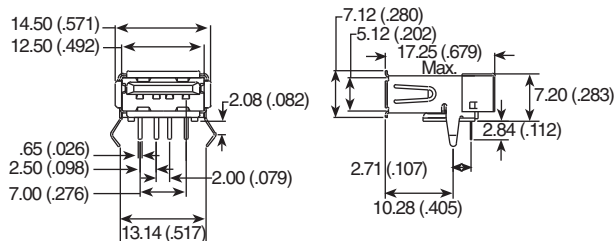
Common mode impedance 90Ω ±25%
 @ 100MHz
 IR 10 MΩ min.
 DC Resistance 0.30 Ω max.

Material

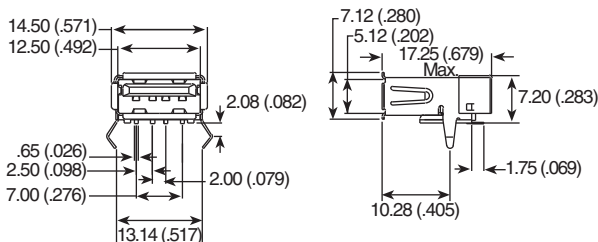
Shell: Brass, nickel plated
 Insulator: Thermoplastic, UL94V-0, reflow compatible
 Contacts: Phosphor bronze, gold flash over nickel

Inductive Filters for USB 2.0

56FU04-020 - socket right angle through hole connector



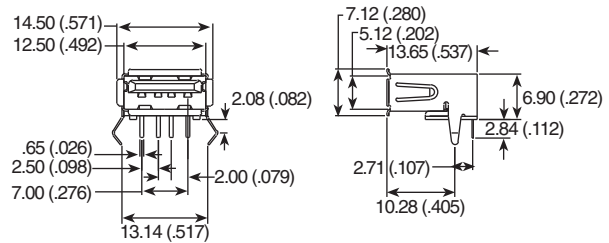
56FU04-020SM - socket right angle surface mount connector



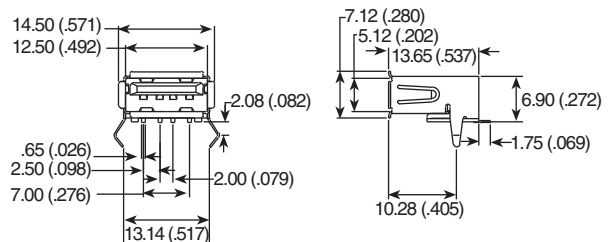
Note: ESD protection can be added to the 2.0 versions as an option

Capacitive Filters for USB 1.1

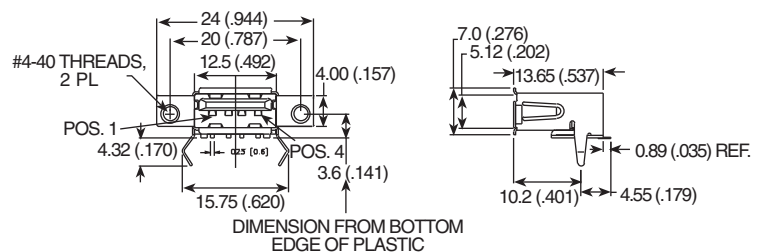
56FU04-004 - socket right angle through hole connector



56FU04-004SM - socket right angle surface mount connector



56FU04-004TPM - socket right angle through hole connector with panel mount tabs



Note: Additional capacitor values available. Consult factory.

Custom styles and configurations available. Consult factory.

ESD Protected USB Connectors Series USB-E

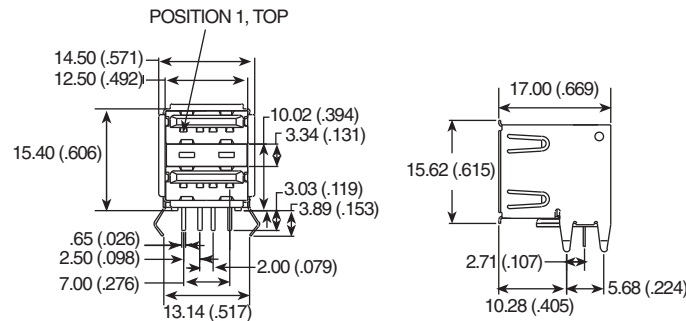
Electrical Specifications

- Operating Temperature -55°C to +125°C
- Working Voltage 5 VDC
- Current Rating 1 Amp max.
- Contact Resistance 30 mΩ max.
- Temperature Range -40°C to +71°C
- Reverse Standoff Voltage 5 Volts
- Reverse Breakdown Voltage 6 Volts
- Clamping Voltage Ipp=1A, tp=8/20us, 9.8 Volts
(15 Volts for 56FU24-E01)
- Junction capacitance,
I/O to GND 10pF max.
(3pF max. for 56FU24-E01)

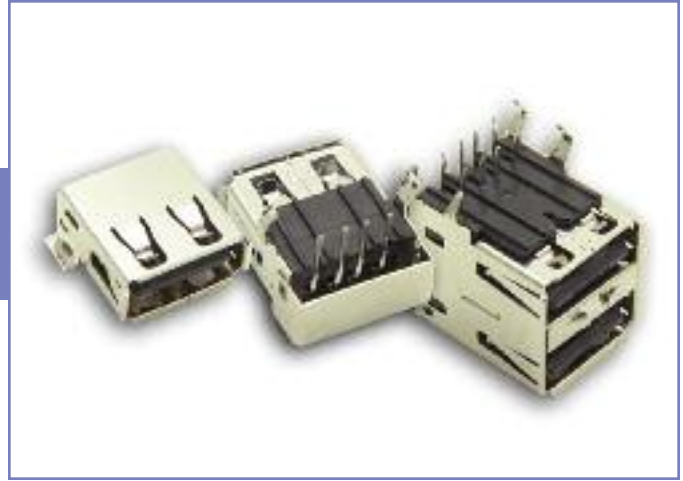
Material

- Shell: Brass, nickel plated
- Insulator: Thermoplastic, UL94V-0, reflow compatible
- Contacts: Phosphor bronze, gold flash over nickel

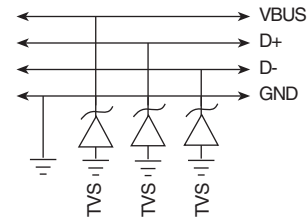
56FU24-E01 - stacked socket right angle through hole connector with TVS diodes



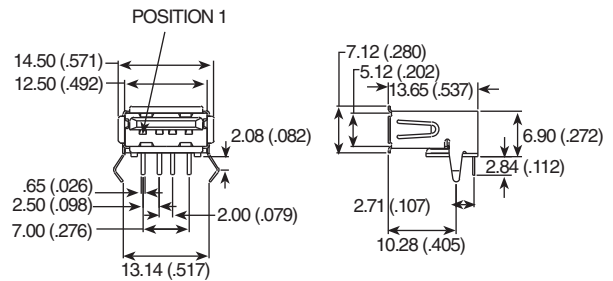
Custom styles and configurations available. Consult factory.



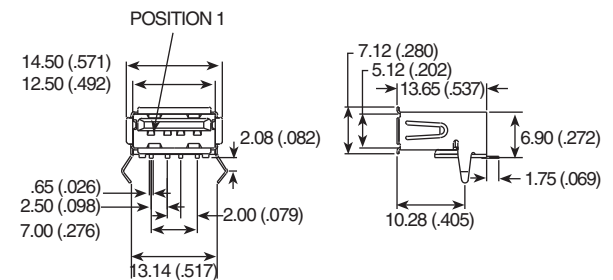
Protection Schematic



56FU04-E01 - socket right angle through hole connector with TVS diodes



56FU04-E01SM - socket right angle surface mount connector with TVS diodes



Rugged USB Connectors

New rugged USB Connectors from API's Spectrum Control brand feature a heavy-duty design able to connect to USB 2.0 or 1.1 ports, making them ideal for demanding, high stress applications.

Product Highlights

- Connectors meet seal requirements of IEC-60529, Code IP67 on PCB side
- Meet immersion requirements per MIL-STD-810F, Method 512.4 to 20 meters (unmated)
- RoHS compliant
- Supplied with gasket
- Ideal for demanding applications in the military, communications, medical, industrial and computing industries
- Type A, right-angle mounted connector
- USB 2.0 or 1.1 applications
- Part Number: 56FU04-017



Electrical Specifications

Operating Temperature . . -40°C to +105°C

Current Rating 1.5 Amps

Contact Resistance 30 mΩ

Dimensions



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[API Technologies:](#)

[56FU04-E01-SM](#) [56FU04-004-SM](#) [56FU04-004](#)