

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

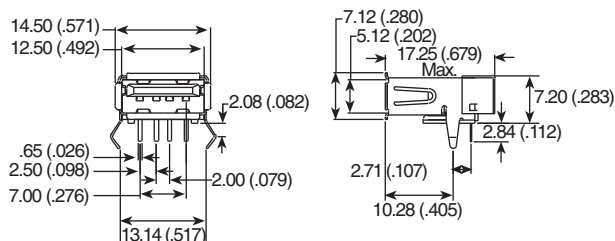
Shell: Brass, nickel plated

Insulator: Thermoplastic, UL94V-0, reflow compatible

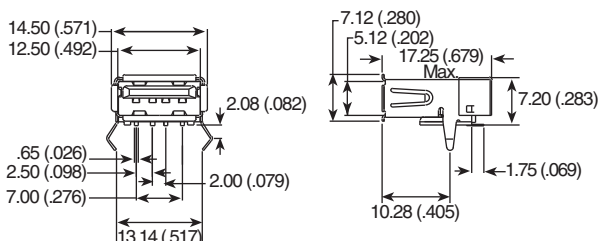
Contacts: Phosphor bronze, gold flash over nickel

Inductive Filters for USB 2.0

56FU04-020 - socket right angle through hole connector



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

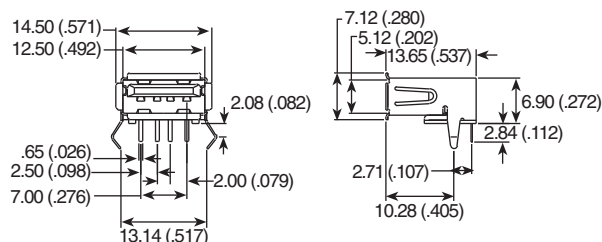


Note: ESD protection can be added to the 2.0 versions as an option

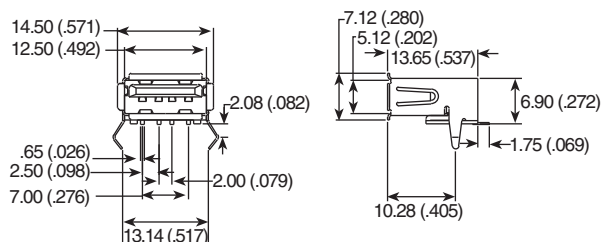


Capacitive Filters for USB 1.1

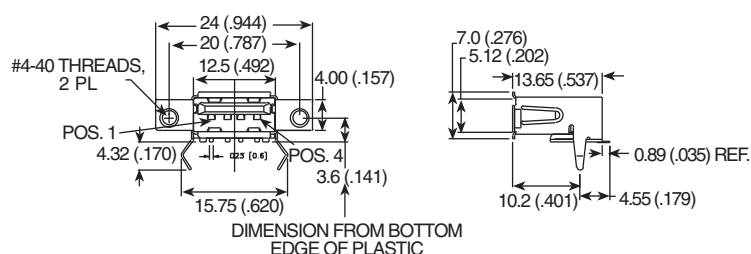
56FU04-004 - socket right angle through hole connector



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

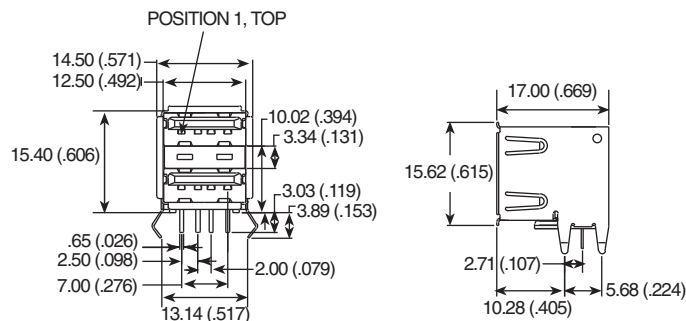
Electrical Specifications

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 I_{pp}=1A, t_p=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

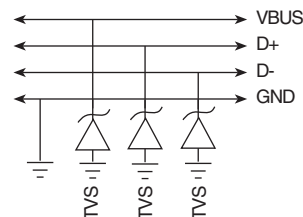
56FU24-E01 - stacked socket right angle through hole connector with TVS diodes



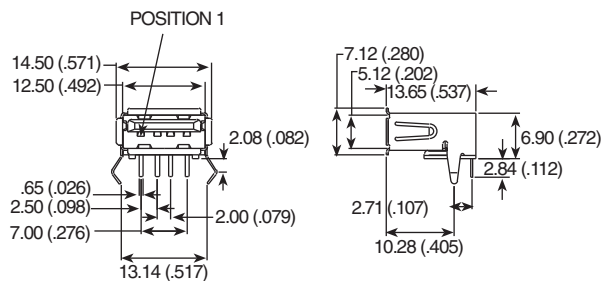
Custom styles and configurations available. Consult factory.



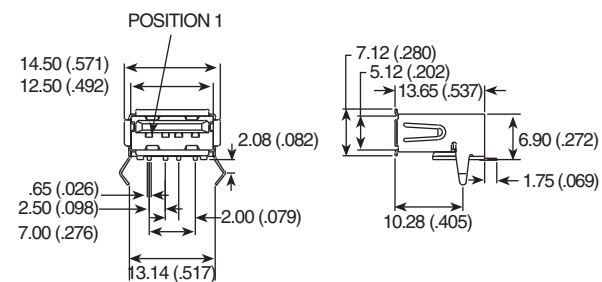
Protection Schematic



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



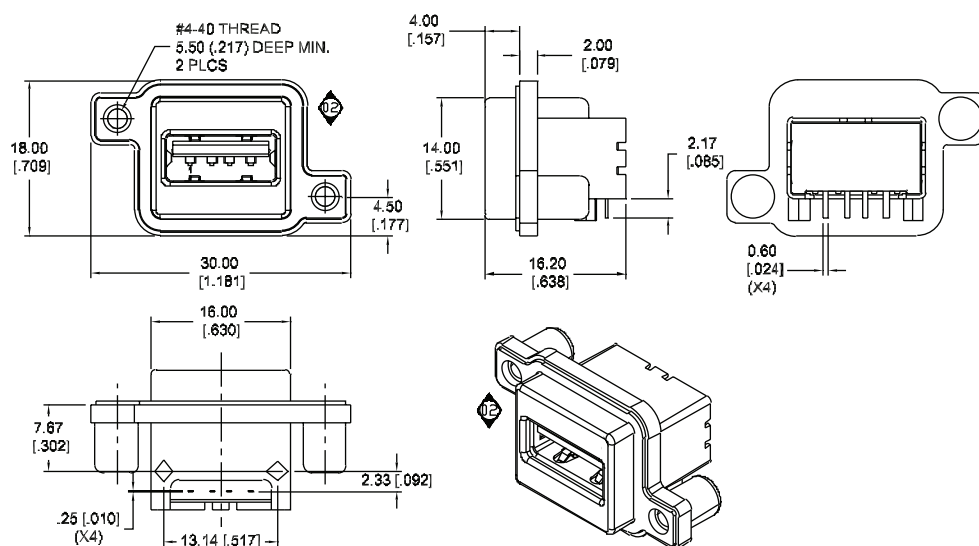
Electrical Specifications

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](#)