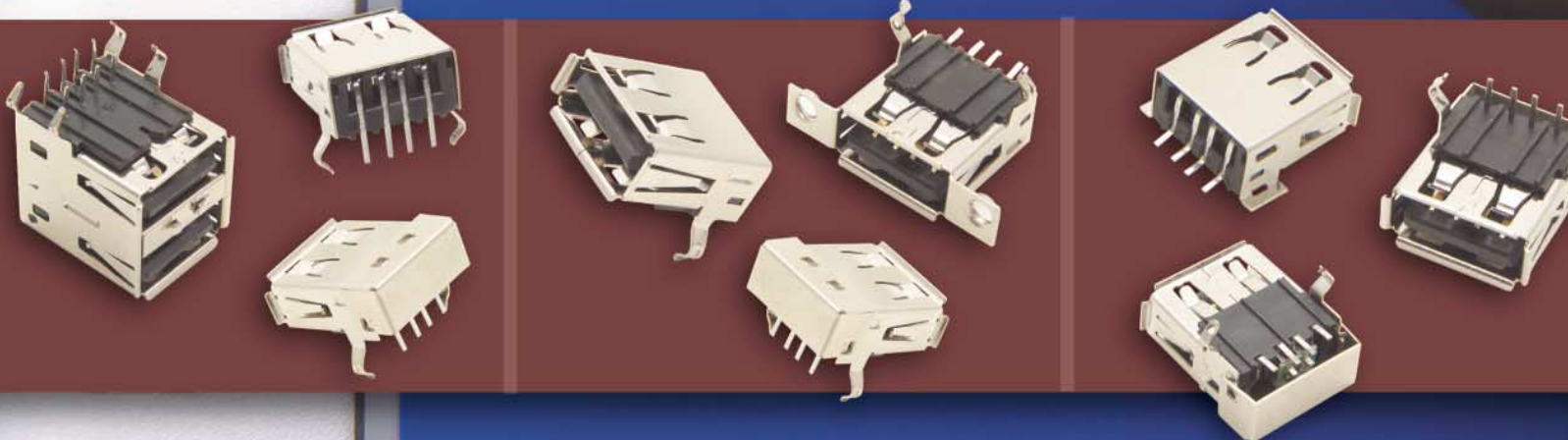




SPECTRUM CONTROL INC.

EMI & ESD Protection @ the USB Connector



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

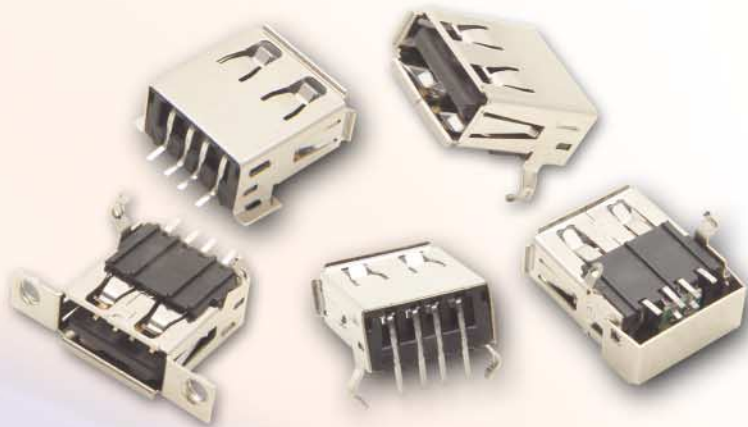
Capacitance 100pF
 Dielectric withstand voltage 125VDC

Inductive Filtered

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

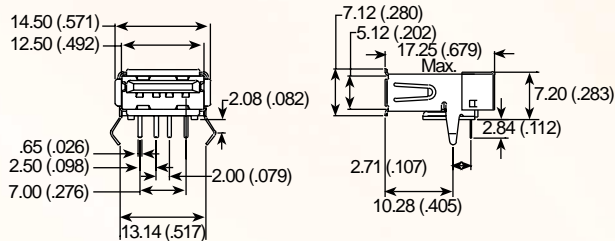
Material

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

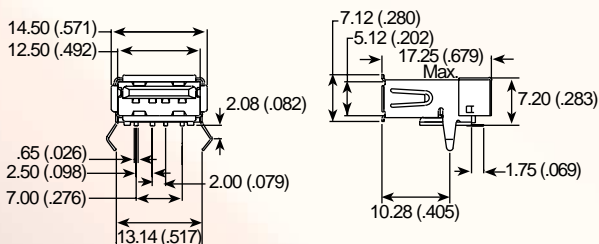


Inductive Filters for USB 2.0

56FU04-020 - socket right angle through hole connector



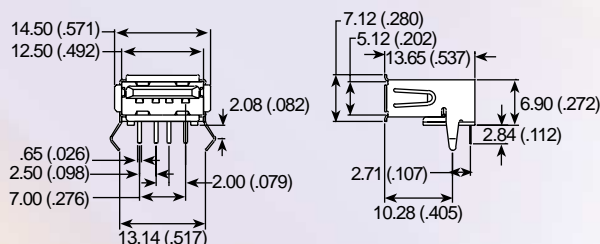
56FU04-020SM - socket-right angle surface mount connector



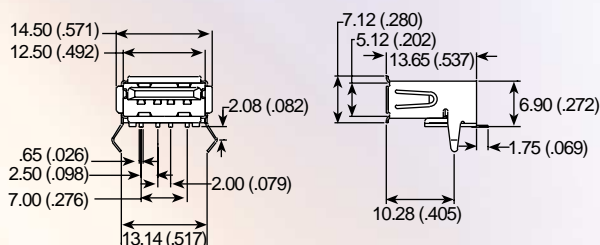
Note: ESD protection can be added to the 2.0 versions as an option

Capacitive Filters for USB 1.1

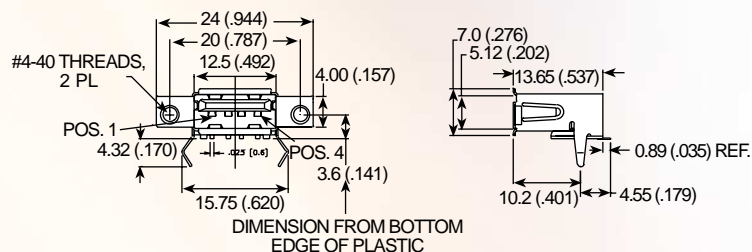
56FU04-004 - socket right angle through hole connector



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.

