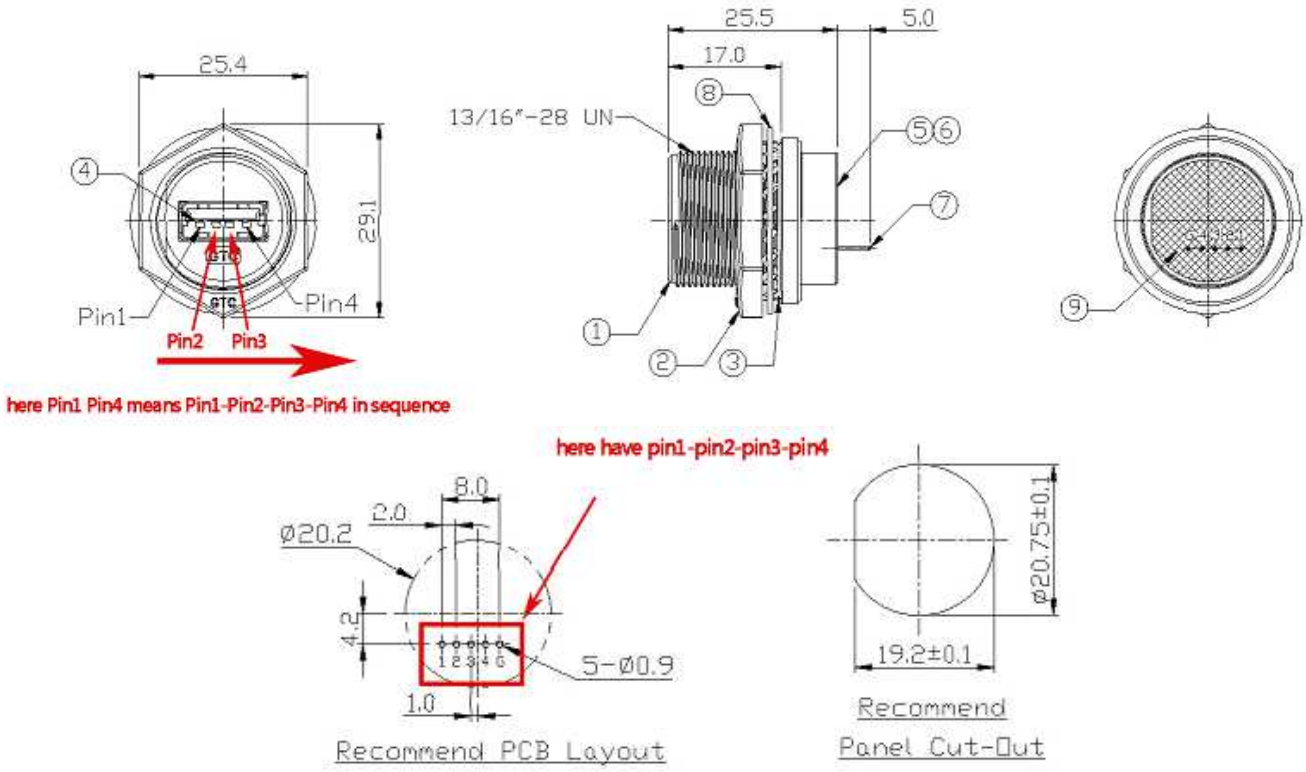
Datasheet

Item no. 1497955

V1_09262017_01_en

USB-A metal C3 Panel Jack Screw



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PRODUCT SPECIFICATIONS

Product Series	**USB (Metal) Series**
Current Rating	1.5A
AWG Gauge	22 AWG ~ 28 AWG
Panel Temperature Range	-40°C / +105°C
Cable Temperature Range	-40°C / +80°C
IP Rating	IPX8
Material	
Panel Housing	Zn Alloy, Ni Plating
USB Receptacle Housing	PBT
USB Receptacle Contacts	Copper Alloy, Au Plating
USB Receptacle Shell	Copper Alloy, Ni Plating
Panel O-Ring	Silicone
Panel hex Nut	Zn Alloy, Ni Plating
Glue	Epoxy
Cable End Screw Nut	Zn Alloy, Ni Plating
USB Plug Housing	PBT
USB Plug contacts	Copper Alloy, Au Plating
USB Plug Shell	Copper Alloy, Ni Plating
Cable End Rubber Pad	Silicone
Inner Mold	PE
Over Mold	PVC

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Technical Data	
Characteristics	**Description**
Visual and Dimensional Inspection	Must meet or exceed the requirements specified by the most current version of the USB Specification.
Insulation Resistance	DC500V±10%, test for 1 minute and the insulation resistance should be more than 100MΩ
Dielectric Withstanding Voltage	500 V DC/AC peak, contact-to-contact, for 1 minute. 750 V DC/AC peak, contact-to-test panel or contact-to-shield for 1 minute.
Contact Resistance	30mΩ at 10mA Max.
Insertion and withdrawal forces	Speed: 10 mm/s maximum. Insertion: 35 N maximum at a maximum rate of 12.5 mm (0.492") per minute. Withdrawal: 10 N minimum at a maximum rate of 12.5 mm (0.492") per minute.
Durability	1,500cycles insertion/extraction cycles at a maximum rate of 200 cycles per hour.

Cable Pull-Out	After the application of a steady state axial load of 40 N for one minute.
Cable Flexing	A traverse 180° in one direction plus 180° in the opposite direction shall be called one cycle, the cycling rate shall be 12 to 14 cycles per minute. After completion of 100 cycles, test withstanding voltage and insulation resistance
Physical Shock	No discontinuities of 1 µs or longer duration when mated USB connectors are subjected to 11 ms duration 30 Gs half-sine shock pulses. Three shocks in each direction applied along three mutually perpendicular planes for a total of 18 shocks.
Random Vibration	The electrical load conditions shall be 100mA maximum for all contacts. Frequency: 50 to 2000 Hz PDS: 0.04 g^2 /Hz. Duration: 1 Hour/Axis, 3 Axes Total. g's: 7.56 g rms
Thermal Shock	5 cycles at -40°C / +105°C, after the test, the function and appearance can't be impacted.
Humidity Life	96 hours minimum (seven step cycles).
Salt Spray	The test liquid (Nacl) thickness is 5%, Compressing the air pressure is 0.083Mpa, Spraying amount is 1~2 ml/80cm/h, Temperature of the pressure barrel is 43°C, LAB temperature is 35°C, relative humidity of LAB is 95%~98%, test time is 48 hours, after the test, check if there is rusty and oxidized phenomenon
Waterproof Test	Submersion in water 1 meter for 24 hours.
Temperature Life	85°C for 48 hours Method A , Mated
Cycling Humidity	4 cycles at 25°C / +85°C 95%RH (1 cycles/day)
UV Exposure	24 H equal 1 year: 8 h UV at 70 (±3) °C Black Panel Temperature 4 h Condensation at 50 (±3) °C Black Panel Temperature