#### **Materials**

- 1. Shell, steel, nickel plated
- 2. Pins, brass, 5 μ" gold and tin plating
- 3. Insulator, PBT, white

#### Electrical

Rated voltage: 30 Vdc Rated current: 3 A

Dielectric strength: 1 min @ 500 Vac Insulation resistance: 500 M $\Omega$  @ 500 Vdc Contact resistance: 50 m $\Omega$  or less

#### Mechanical

Insertion force: 3.5 kgf maximum Withdrawal force: 1.0 kgf minimum

Durability: 1500 cycle minimum life; less than 100 m $\Omega$  contact resistance, minimum 100 M $\Omega$  insulation

resistance

Terminal strength: 0.3 kgf in any direction without

damage or looseness

Soldering

Solderability: 75% minimum coverage when terminals dipped 2 mm in 245 ±5 °C solder bath for 3 ±0.5 seconds

Solder bath durability: no deformation when immersed in 255  $\pm 5$  °C up to surface of the board for 5 seconds or less

Solder iron durability: no deformation when exposed to  $350 \pm 10$  °C for  $3 \pm 0.5$  seconds

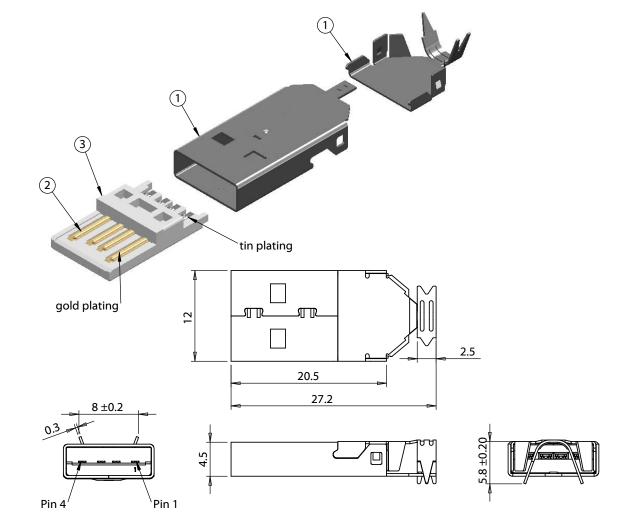
### **Environmental**

Cold test: -40 ±3 °C for 48 hours without deformation Heat test: 85 ±2 °C for 48 hours without deformation Humidity test: 40 ±2 °C and humidity between 90 and 98 % for 48 hours without deformation

## Operating range

-40 ~ 85°C

# USB A 2.0 plug molding style



Revision:	Date:	Description:	Prepared:	Notes:					
Α	12/15/2015	Initial release		RoHS and REACH compliant		F	JSII	ITY	
A1	07/27/201/	Corrected operating temp range	Verified:	Function test: no open, no short circuit, no intermittent		tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com			
			Dimensions are in millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	Description:	Size: Part number:				
				Connector, USB A plug, molding style, nickel shell, shielded, white insulator	Α	А 50-00467			
					Scale:	2:1		Sheet 1 of 1	