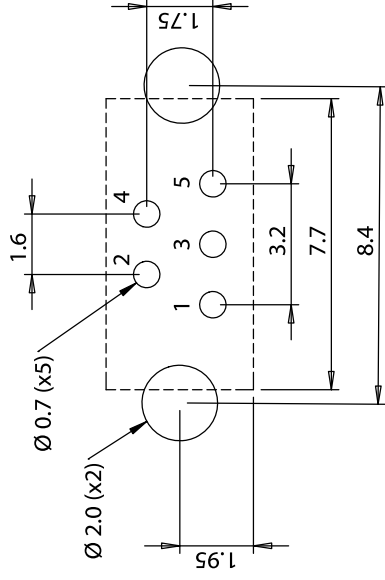
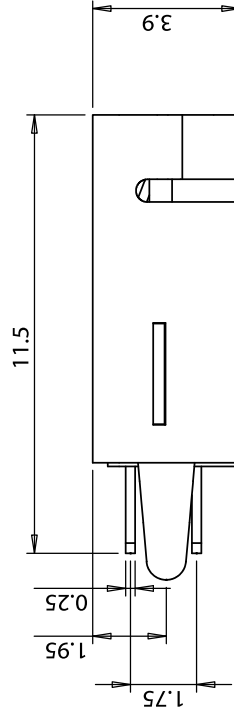
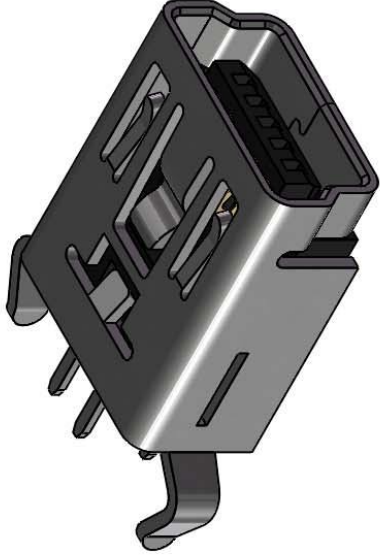
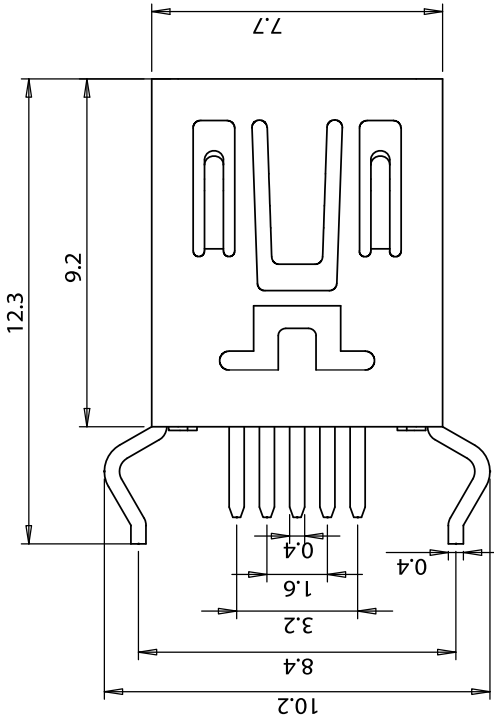


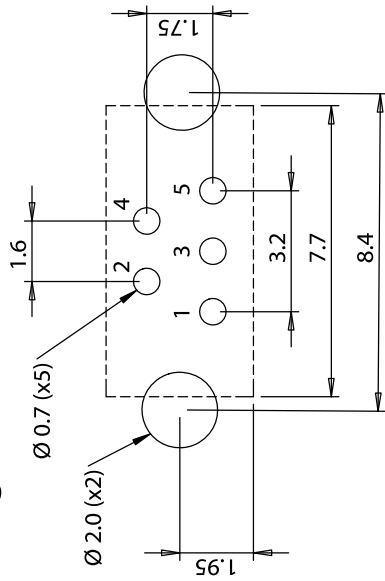
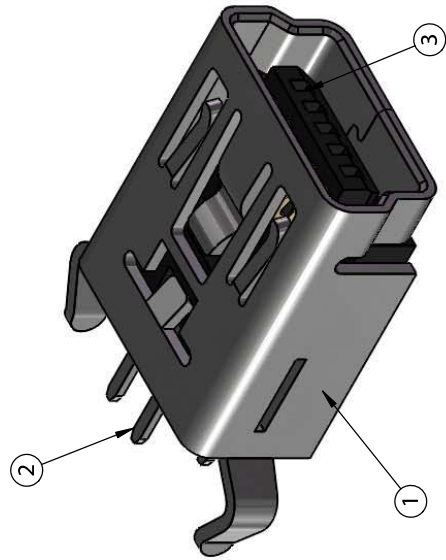
USB mini B jack 180° PCB mount



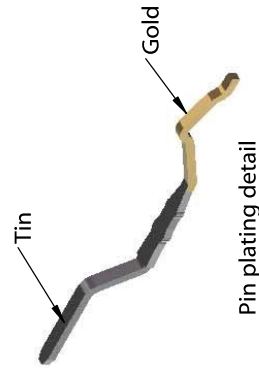
PCB Layout

Revision:	Date:	Description:	Prepared:	Notes:	TENSILITY
A	09/28/2015	Initial release	GL Digitally signed by GL Date: 2018.08.09 11:13:31 -07'00'	RoHS compliant	tel/ 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com
A1	07/30/2018	Corrected operating temp range	RS Digitally signed by RS Date: 2018.08.09 11:19:01 -07'00'	Function test: no open, no short circuit, no intermittent	Size: Part number: A 54-00025
			Dimensions are in millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	Description: Connector, USB mini B Jack, PCB mount, 180°, nickel shell, DIP, board lock, black insulator, tray	Scale: 5:1
					Sheet 1 of 2

USB mini B jack 180° PCB mount



PCB Layout



Pin plating detail

Materials
 1. Shell, phosphor bronze, nickel plated
 2. Pins, phosphor bronze, 5 μm gold and tin plating
 3. Insulator, Nylon 46, black

Electrical
 Rated voltage: 30 Vdc
 Rated current: 2 A
 Dielectric strength: 1 min @ 500 Vac
 Insulation resistance: 100 MΩ @ 500 Vdc
 Contact resistance: 50 mΩ or less

Mechanical
 Insertion force: 3.5 kgf maximum
 Withdrawal force: 0.7 kgf minimum
 Durability: 5000 cycle minimum life: less than 100 mΩ contact resistance, minimum 50 MΩ insulation resistance
 Terminal strength: 0.3 kgf in any direction for 15 seconds without damage or looseness

Soldering
 Solderability: 75% minimum coverage when terminals dipped 2 mm in 255 ±5 °C solder bath for 3 ±0.5 seconds
 Solder bath durability: no deformation when immersed in 260 ±5 °C up to surface of the board for 10 seconds or less
 Solder iron durability: no deformation when exposed to 350 ±10 °C for 3 ±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

Revision:	Date:	Description:	Prepared:	Notes:
A	09/28/2015	Initial release	GL Digitally signed by GL Date: 2018.08.05 11:33:53 -0700	RoHS compliant
A1	07/30/2018	Corrected operating temp range	RS Digitally signed by RS Date: 2018.08.09 11:18:15 -0700	Function test: no open, no short circuit, no intermittent
			Dimensions are in millimeters.	Description:
			Tolerances:	Connector, USB mini B Jack, PCB mount, 180°, nickel shell, DIP, board lock, black insulator, tray
			X: ± 0.5 mm	Size: Part number:
			X.X: ± 0.3 mm	A 54-00025
			X.XX: ± 0.05 mm	Scale: 5:1
				Sheet 2 of 2