aquanex®

Environmentally Sealed
IP67 Micro USB Range

GCT

Vital Stats

Introducing the *aquanex®* range from *GCT.* Micro USB connectors with an *IP67 rating* for protection against *dust and liquid ingress* (up to a depth of 1 meter)

A silicone seal is moulded to the exact connector profile to ensure reliability against the flange, creating an optimal seal. The stainless steel shell is made using an innovative *metal injection moulding* (MIM) manufacturing process. This one-piece shell construction adds integrity.

Water & Dust Proof

IP67

Injection Molded Shell

Stainless Steel

Operating Temp.

-30 to +85°C

Mating Cycles

10,000

Specification

USB 2.0

gct.co/waterproof-connectors

aquanex® Range

USB3500 - Mid PCB Mount

- IP67 Rated, USB 2.0 Micro Type B Horizontal Receptacle
- Single-piece injection molded stainless steel shell
- 1.425mm profile above PCB, Mid mount, Hybrid PCB mount
- 4 Through-hole shell stakes, 5 SMT solder tails

USB3505 - Top PCB Mount

- IP67 Rated, 5 Pin USB 2.0 Micro Type B Horizontal Receptacle
- Single-piece injection molded stainless steel shell
- 2.95mm profile above PCB, Top mount, Hybrid PCB mount
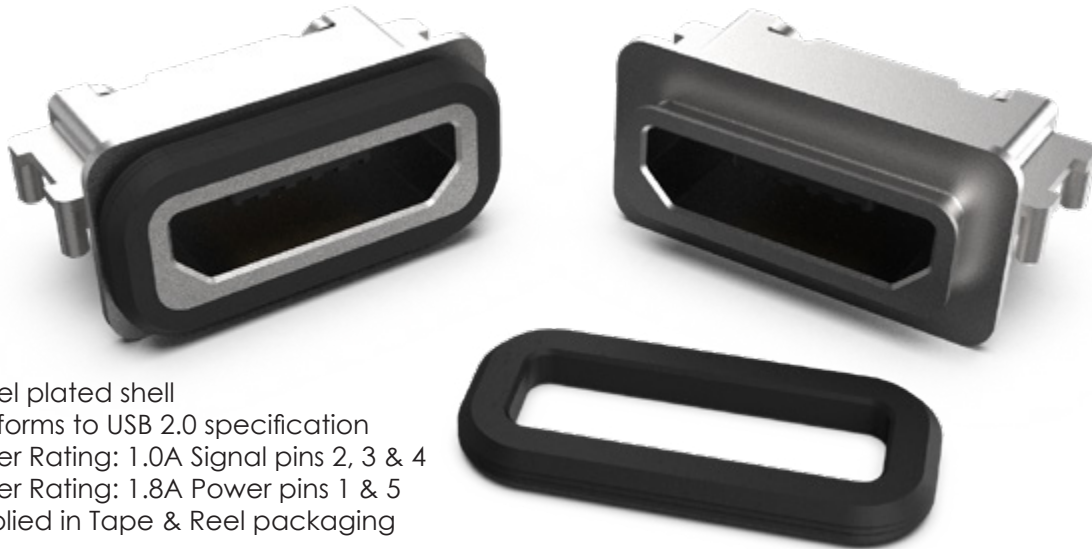- 4 Through-hole shell stakes, 5 SMT solder tails

USB3510 - Vertical Coming Soon

- IP67 Rated, 5 Pin USB 2.0 Micro Type B Vertical Receptacle
- Single-piece injection molded stainless steel shell
- 5.20mm profile above PCB, Top mount, Surface mount
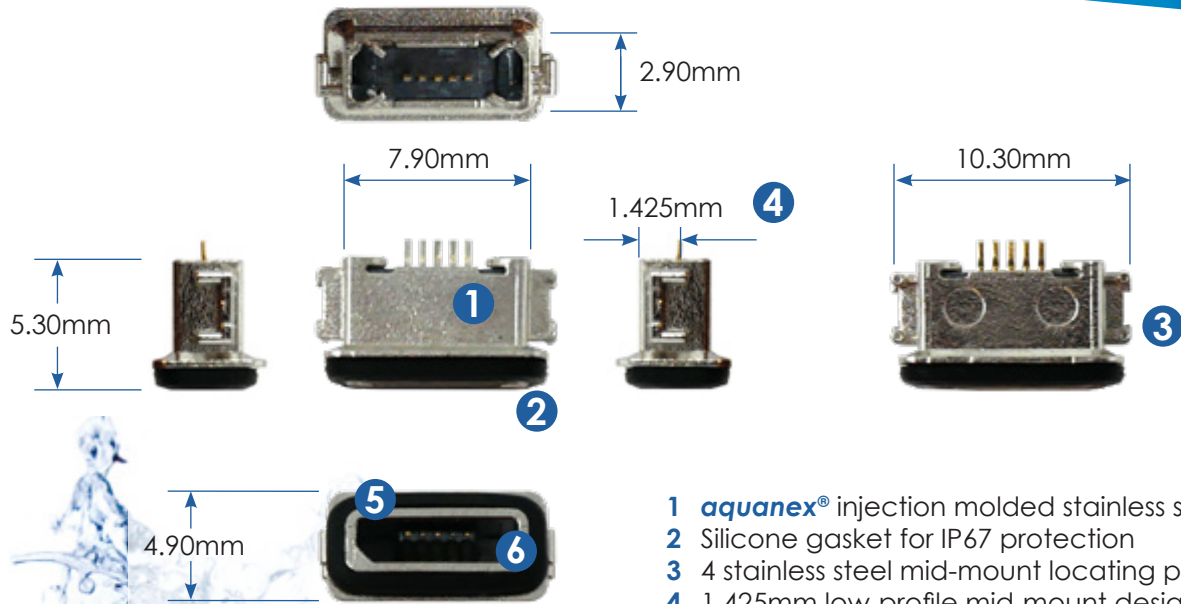- 4 Through-hole shell stakes, 5 SMT solder tails

USB3500 Key Specs

The first in the *aquanex®* range - *USB3500* - is a horizontal mid-plane top-mount micro USB with a profile above the PCB of just *1.425mm* and a total main body height of 2.9mm, allowing it to squeeze into the tightest of designs. 4 mounting posts provide secure attachment to the PCB - no screws or fixing needed.

- Nickel plated shell
- Conforms to USB 2.0 specification
- Power Rating: 1.0A Signal pins 2, 3 & 4
- Power Rating: 1.8A Power pins 1 & 5
- Supplied in Tape & Reel packaging

gct.co/connector/usb3500

USB3500 Key Dimensions

2.90mm

7.90mm

1.425mm

4

10.30mm

5.30mm

1

2

3

5

4.90mm

6

1 *aquanex*® injection molded stainless steel shell
2 Silicone gasket for IP67 protection
3 4 stainless steel mid-mount locating pegs
4 1.425mm low-profile mid-mount design
5 30µ" gold-plated contacts
6 Micro USB 2.0 Type B interface

USB3505 Key Specs

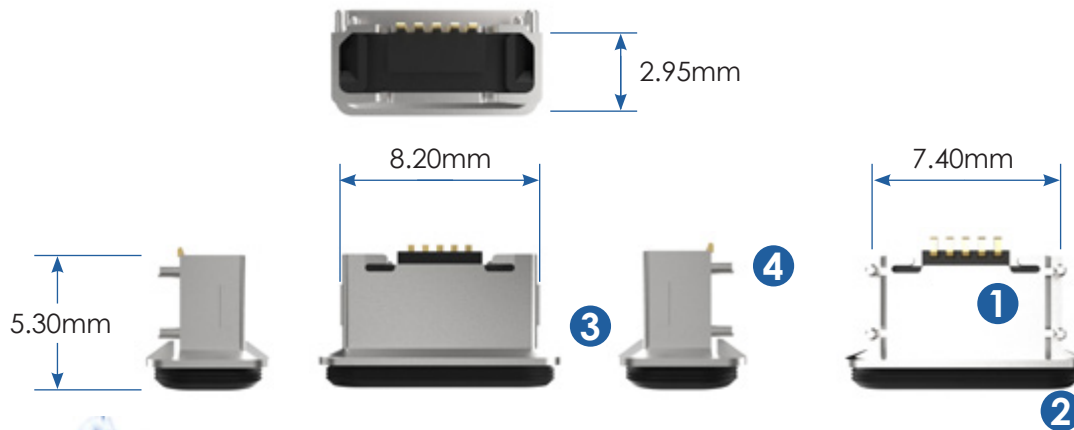The second in the *aquanex®* range - *USB3505* - is a horizontal top-mount micro USB with a profile above the PCB of just *2.95mm* and a total main body depth of 5.3mm, allowing it to squeeze into the tightest of designs. 4 mounting posts provide secure attachment to the PCB - no screws or fixing needed.

- Nickel plated shell
- Conforms to USB 2.0 specification
- Power Rating: 1.0A Signal pins 2, 3 & 4
- Power Rating: 1.8A Power pins 1 & 5
- Supplied in Tape & Reel packaging

USB3505 Key Dimensions

2.95mm

8.20mm

7.40mm

5.30mm

4.90mm

3

4

1

2

5

6

1 *aquanex*® injection molded stainless steel shell
2 Silicone gasket for IP67 protection
3 4 stainless steel bottom-mount locating pegs
4 1.425mm low-profile mid-mount design
5 30µ" gold-plated contacts
6 Micro USB 2.0 Type B interface

Website

GCT

Technical Documentation
Detailed Product Drawings | Specification & Testing Documents

Instant 3D CAD Model & PCB Footprint Downloads
Configure & download any GCT part in seconds | Universal & software-specific file types

Quick Quoting & Express Sampling
Online Part Number Builder | Live Chat with our Experts | 72 hour Sampling on Select Ranges

Custom Connector & Cable Assembly Capabilities
Bespoke Designs from Idea to Reality | Overmolded, IDC & Crimp Cable Assembly Options

Local Support with a Global Footprint
GCT Locations in Europe, the Americas, and Asia | Worldwide Distribution Partners

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