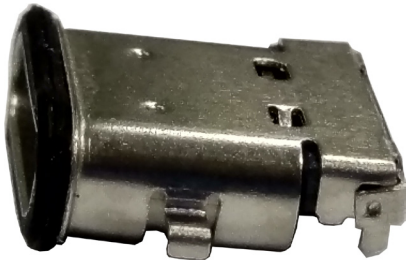# USB 3.1 Type C Receptacle
R/A DIP, 0.29mm Centre Height, Waterproof

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Specifications

USB Connector Type	: USB 3.1 Type C Receptacle
No. of Contacts	: 24
USB Connector Mounting	: R/A Surface Mount, Through Hole
Insulator Material	: High Temperature Plastic UL94V-0, Black
Shell Material	: Stainless Steel (0.2mm), 50μ″ Min. Nickel Plating All Over Inner Shell: Degrease
Contact Material	: Copper Alloy (0.15mm)
Contact Plating	: Min. 50μ″ Gold Plating All Over Contact Area Min. 80μ″ Matt Tin Plating All Over Solder Area
Contact Resistance	: 40mΩ Max. For Initial; 10mΩ for Initial

Measure @ 20mV, 100mA after test

Contact Current Rating	: 5A for VBUS Pin; 1.25A for VCONN Pin
Dielectric Withstanding Voltage	: 100V AC RMS
Insulation Resistance	: 100MΩ Min.
Operating Temperature	: -40°C ~ 85°C
Mating Force	: 5 ~ 20N
Unmated Force	: 8 ~ 20N
Durability	: 10,000 Cycles
IP Rating	: IP67

Diagram
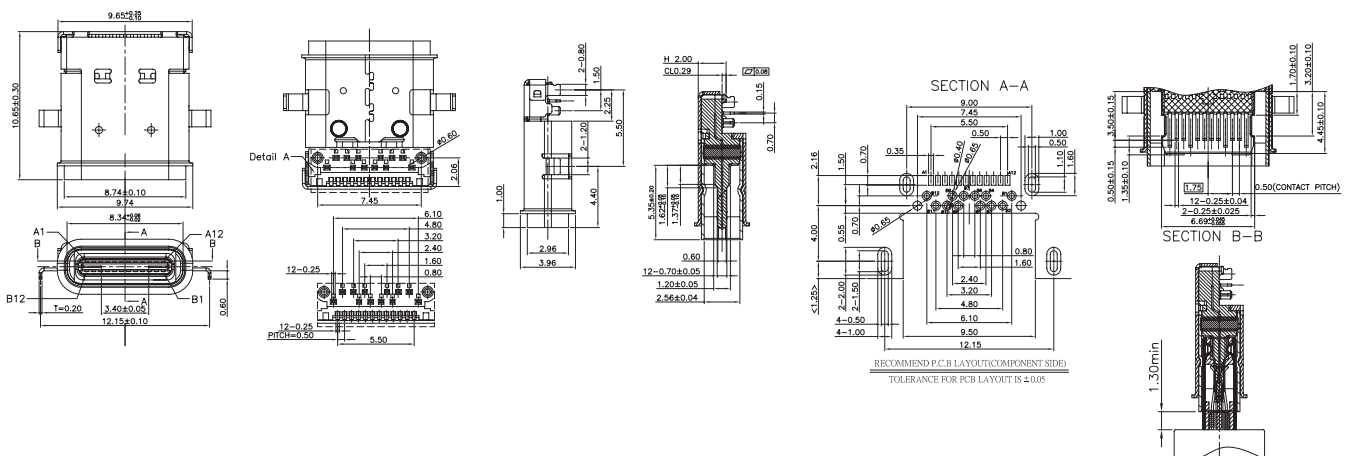
Dimensions : Millimetres

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USB 3.1 Type C Receptacle
R/A DIP, 0.29mm Centre Height, Waterproof

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RECOMMENDED OPEN DIMENISION OF CASE
TOLERANCE: ±0.03mm
MATTING AREA WITH SEALING RING
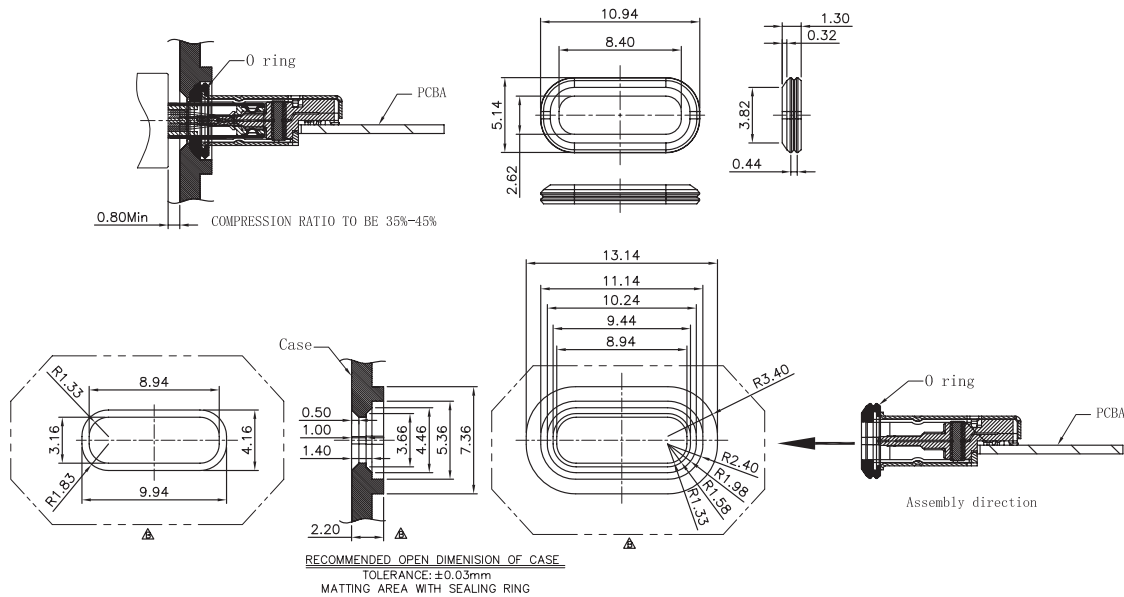
Pin	Signal Name	Mating Sequence	Pin	Signal Name	Mating Sequence
A1	GND	First	B12	GND	First
A2	SSTXp1	Second	B11	SSRXp1	Second
A3	SSTXn1	Second	B10	SSRXn1	Second
A4	V_{BUS}	First	B9	V_{BUS}	First
A5	CC1	Second	B8	SBU2	Second
A6	Dp1	Second	B7	Dn2	Second
A7	Dn1	Second	B6	Dp2	Second
A8	SBU1	Second	B5	CC2	Second
A9	V_{BUS}	First	B4	V_{BUS}	First
A10	SSRXn2	Second	B3	SSTXn2	Second
A11	SSRXp2	Second	B2	SSTXp2	Second
A12	GND	First	B1	GND	First

This product range is available in Cut &Tape and Tape & Reel Options

Part Number Table

Description	Part Number
USB 3.1 Type C Receptacle, Waterproof, 24Pos, R/A DIP, 0.29mm Centre Height, IP67	MC002810

Dimensions : Millimetres

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11/08/21   V1.1