USB 3.1 Type C Connector multicomp PRO





Note

Material Specification

Housing : LCP, UL94 V-0.

Contacts : Copper Alloy (C1814)

MID Plate : Stainless Steel (SUS301)

Front Shell : Stainless Steel SUS304)

EMI Plate : Stainless Steel SUS304)

Plating Specification

Contacts : NI 50u" Min. Under Plated Over all

Au Plated on the Functional Area of Contact. (Gold Plating Thickness Follow the P/N)

Plating Specifications of the Solder Area Follow The P/N

Front Shell : Ni 30u" Min. Under Plated Over All2-3 Mid Plate & EMI Plate Clear Only

Mechanical Performance

Insertion Force : 0.5kgf to 2kgf.
Removal Force : 0.8kgf to 2kgf.
Durability : 10000 Cycles.

Electrical Performance

Current Rating : 5A Voltage Rating : 5V

LLCR : VBUS & GND Pins And Other Pins : $40m\Omega$ /Pin Max.

Shield : $50m\Omega/Max$. LLCR Max. Change of All Pins : $10m\Omega$ Insulation Resistance : $100M\Omega$ Min.

Dielectric Withstand Voltage: 100V AC For 1 Minute.

Environmental Performance

Operating Temperature : -25°C to +85°C

IR Reflow : The Peak Temperature on the Board Shall be Maintained For 10 Seconds at 260°C.

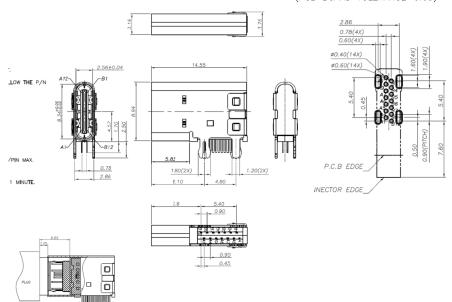
Newark.com/multicomp-pro Farnell.com/multicomp-pro sg.element14.com/b/multicomp-pro



USB 3.1 Type C Connector multicomp PRO

Drawing

Recommended P.C.B Layout(Top Side) (PCB BOARD TOLERANCE±0.05)



USB Type-C Pin Assignments

PIN Number	Signal Name			
A1	GND			
A4	VBUS			
A5	CC1			
A6	Dp1			
A7	Dn1			
-	-			
A9	VBUS			
A12	GND			

PIN Number	Signal Name		
B12	GND		
В9	VBUS		
-	-		
B7	Dn2		
B6	Dp2		
B5	CC2		
B4	VBUS		
B1	GND		

Part Number Table

Description	Housing Colour	Functional Area	Solder Area	Part Number
USB 3.1 Type C Connector, 4 Way, Right Angle	Black	Au:3u"	Au:G/F	MP011037

Important Notice: This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/multicomp-pro Farnell.com/multicomp-pro sg.element14.com/b/multicomp-pro

Dimensions: Millimetres

