

O.S.S.O Osaka Engineering Center 1. SEP. 2015



♦Specification

Current rating ; Power / 5A (apply to 1.25A/Vbus 4pins)Signal / 0.25A

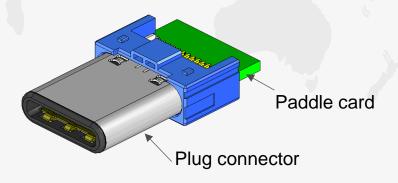
Voltage rating ; 30V

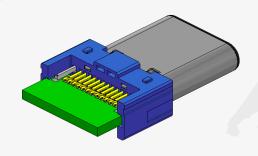
■ Temperature range; -40°C~ +85°C (including temperature rise in applying electrical current)

Characteristic impedance; 85Ω±9Ω / rise time: 40ps (20%-80%)

Durability ; 10,000cyc

Paddle card thickness ; t0.8mm







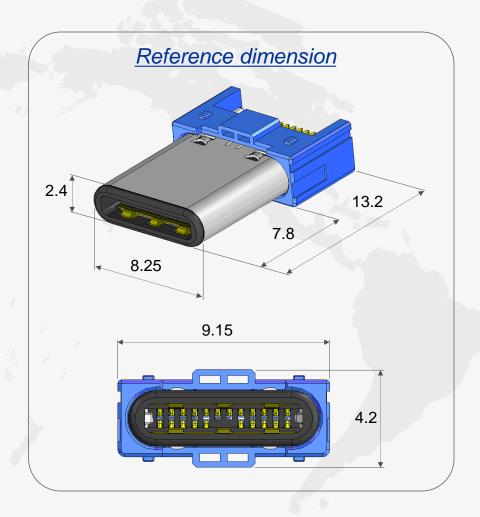
♦Construction

Part Name	Material	Surface finish etc.
Contact	Copper alloy	Nickel under-plated selective Gold-plated
Housing	Heat resisting resin	UL94V-0
Shell	Stainless steel	-
Lock	Stainless steel	Copper under-plated tin-plated
Ground bar	Stainless steel	
Center ground plate	Copper alloy	
Cover housing	Heat resisting resin	UL94V-0
Polyimide tape	Polyimide	-



♦Features

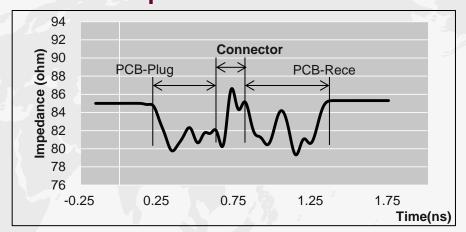
- Transmission performance
 :Meeting USB Type-C requirement
- Adoption of Cover housing
 :Preventing over-mold resin flowing into connector
- Mounting work performance
 Structure of enabling to mount paddle card easily
- Connector strength against bending
 Preventing plug connector coming off from over-mold resin

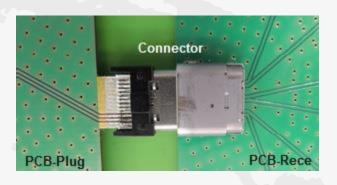




OPerformance: Meeting USB Type-C requirement

◆Transmission performance





	Type-C Specifications	Results	Judgment
Characteristic impedance(Differential) Rise time : 40ps (20-80%)	85 ± 9Ω	80 to 87Ω	ОК

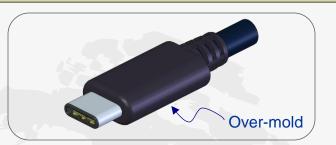
◆Temperature Rise

	Type-C Specifications	Results	Judgment
Temperature Rise	Not exceed 30°C above the ambient temperature	19 °C (MAX)	ОК



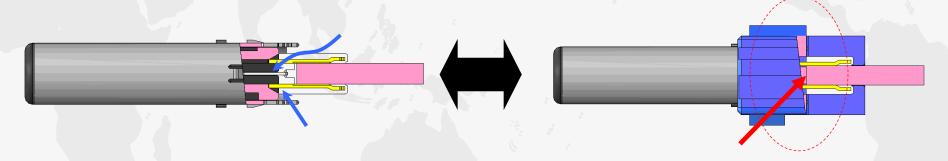
OAdoption of Cover housing

:Preventing over-mold resin flowing into connector



Without Cover housing

With Cover housing



Over-mold resin flow into till tip of contact

Cover housing blocks to flow over-mold resin into connector





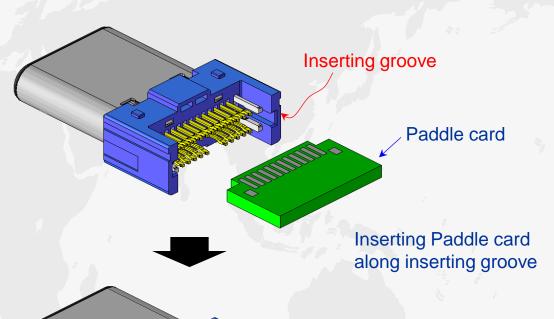
Need an additional process to prevent over-mold resin flowing into inside of connector during assembly process

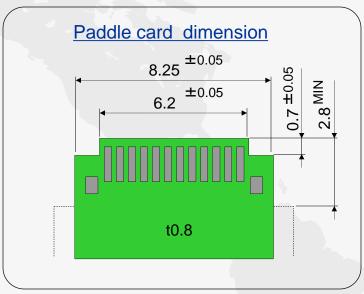
No need an additional process



OMounting work performance

:Structure of enabling to mount paddle card easily



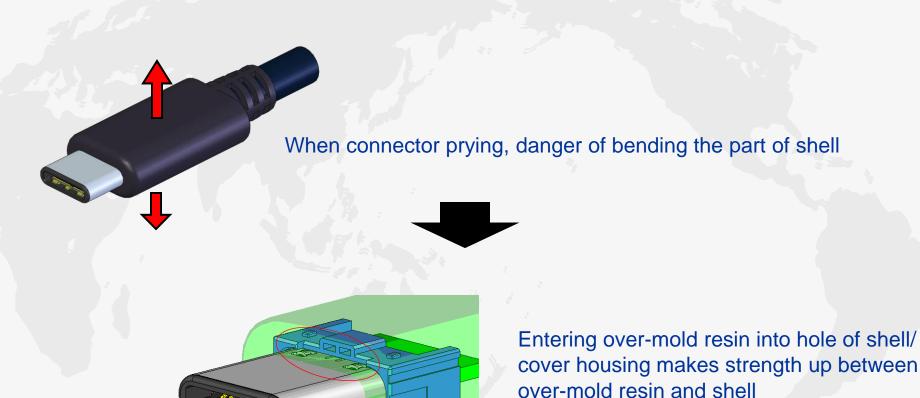


The inserting groove makes mounting lead easily and preventing deviation in pitch, bending lead also



OConnector strength against bending

:Preventing plug connector coming off from over-mold resin



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