



## CX90B-16P Series

Top-Mount USB Type-C Receptacle

### FEATURES:

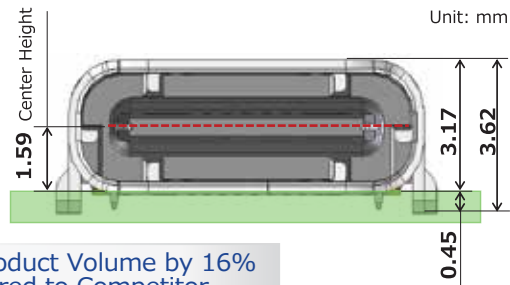
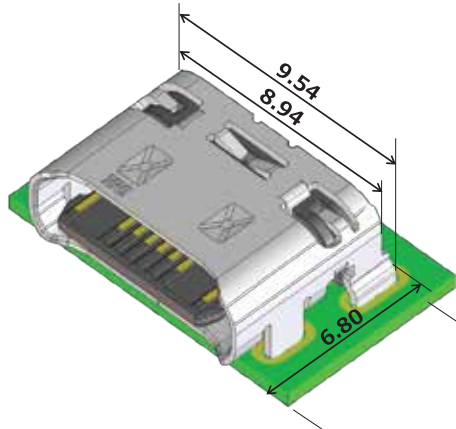
- ▶ Compliant to USB Type-C standard
- ▶ Reduced product size enables space-saving design
- ▶ Improved product quality and safety with 5A supporting
- ▶ Reversible plug insertion
- ▶ Improved peeling strength using 6 THR\* mounting posts
- ▶ USB 2.0 high speed (480Mbps) transmission
- ▶ Ideal for charging applications

REDUCED PRODUCT VOLUME BY  
 16% COMPARED TO COMPETITOR

\*THR, also known as PIP(Pin-in-Paste) process, is a method of soldering lead parts using surface mount (SMT) process and enhances mounting efficiency.

### Dimensions

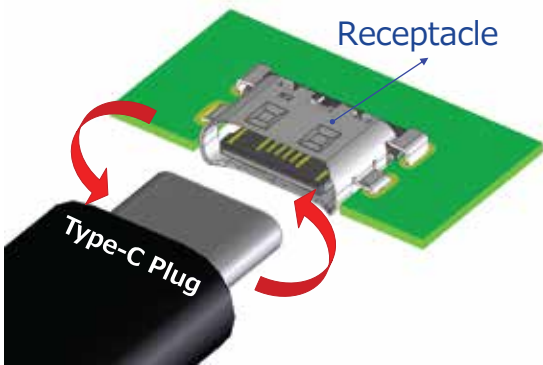
Product Name: **CX90B-16P**



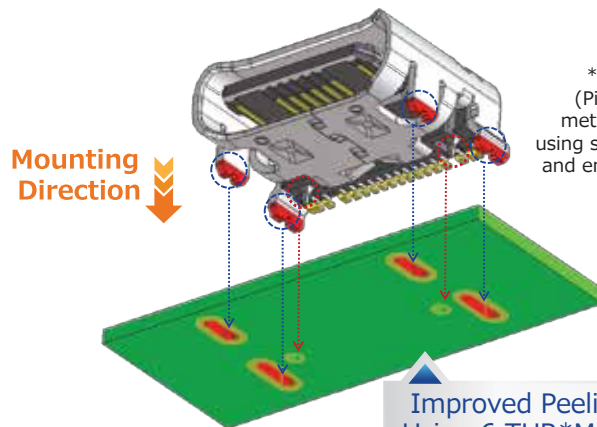
Reduced Product Volume by 16%  
 Compared to Competitor

	Width	Depth	Height	PCB Mounting Area	Volume
CX90B-16P	9.54mm	6.80mm	3.62mm	64.87mm <sup>2</sup>	234.84mm <sup>3</sup>
Competitor	8.94mm	7.35mm	4.26mm	65.71mm <sup>2</sup>	279.92mm <sup>3</sup>

### Reversible Plug Insertion



### Improved Peeling Strength



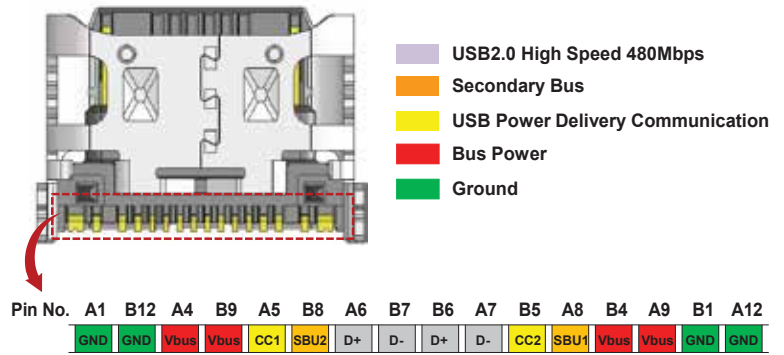
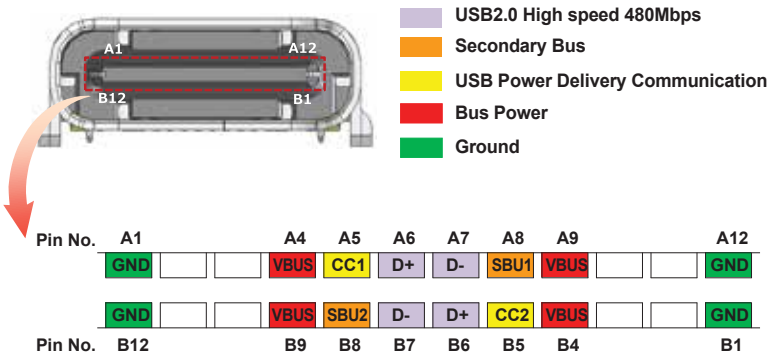
\*THR, also known as PIP (Pin-in-Paste) process, is a method of soldering lead parts using surface mount (SMT) process and enhances mounting efficiency.

Improved Peeling Strength  
 Using 6 THR\*Mounting Posts



## Pin Assignment (Mating Side)

## (Mounting Side)



## Specifications

### MATERIAL AND FINISH

Component	Material	Finish, Remarks
Insulator	Thermal Plastic*	Black, UL94V-0
Contact	Corson Alloy	Contact : Gold plating (Nickel Underplating) Lead : Gold plating (Nickel Underplating)
Mid Plate	Stainless Steel	Nickel Plating
Shell	Stainless Steel	Nickel Plating

\* NOTE : This product satisfies halogen free requirements defined as 900ppm maximum chlorine, 900ppm maximum bromine, and 1500ppm maximum total of chlorine and bromine.

### PERFORMANCE CHARACTERISTICS

Rated Current	1.25A DC Max. for each power pin (A1, A4, A9, A12, B1, B4, B9, B12) 0.25A DC for the other pins
Rated Voltage	20V AC
Operating Temperature	-40 to +85°C
Contact Resistance	40mΩ Max.
Withstanding Voltage	100V AC for 1 min.
Insulation Resistance	100MΩ Min. (500V DC)
Mating Durability	10,000 times

- No. of pos.: 16pos.
- RoHS compliant



For additional information please go to  
<https://www.hirose.com/product/series/CX>

Specifications herein are subject to change without notice.  
 Contact Hirose for latest specifications, drawings, or availabilities.

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