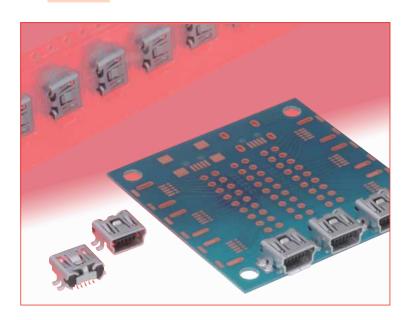
Mini-B Connectors, SMT mount receptacles meeting requirements of USB 2.0 Standard

UX60S Series





Features

1. USB 2.0 Standard data transmission rate Max. data transmission rate of 480 Mbps.

2. Reduced size – less board space

Reduction in the overall length (as compared with other HRS versions) of the receptacle (7.0 mm) translates into less board mounting space.

3. Board placement with automatic equipment

Flat top areas and packaging on tape-and-reel allows use of vacuum pick-up nozzles.

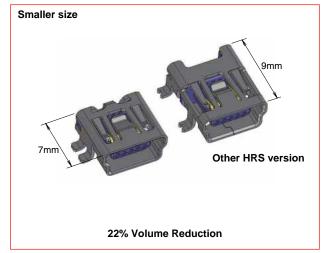
Versions with heat resistant pick-up tape can be also supplied.

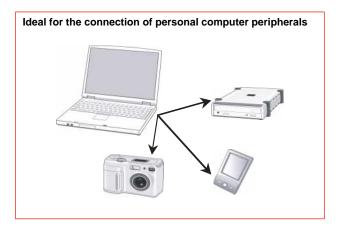
4. RoHS compliant

All components and materials comply with the requirements of EU Directive 2002/95/EC

Applications

Personal computer peripheral equipment, data terminals, portable terminals, digital cameras, and MP3 players and other devices requiring use of Mini-B receptacles complying with all requirements of USB 2.0 Standard.





The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information.

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■Specifications

Ratings	Voltage rating	5 V AC	Operating temperature range	-30 to +75℃
	Current rating	1 A	Storage temperature range	-40 to +85℃ (Note 1)

Item	Specification	Conditions
1.Contact resistance	50 mΩ max.	100 mA
2.Insulation resistance	100 MΩ min.	100 V DC
3.Withstanding voltage	No flashover or insulation breakdown	100 V AC / one minute
4.Capacitance	2 pF max.	Measure between adjacent contacts at 1,000 \pm 10Hz
5.Total insertion/ withdrawal force	Insertion force : 35 N max. Withdrawal force : 7 N min.	Measure with an applicable connector.
6.Durability (mating/unmating)	With corresponding HRS connector. Contact resistance: 70 mΩ max. Withdrawal force: 3 N min.	5,000 cycles
7.Vibration		Frequency 10 to 55 Hz, single amplitude of 0.75 mm, 2 hours in each of the 3 axial directions
8.Random vibration	No electrical discontinuity of 1 μ s or longer No damage, cracks or parts dislocation.	Frequency 50 to 2,000 Hz, 3 directions for 15 minutes each.
9.Shock	Two damage, cracks of parts dislocation.	Acceleration of 490m/s², 11 ms continuous time, sine half-wave, 3 cycles in each of the 6 directions
10.Heat Shock	Contact resistance: 70 mΩ max.	Temperature: -55° $\rightarrow +20^{\circ}$ to 35° $\rightarrow +85^{\circ}$ $\rightarrow +20^{\circ}$ to 35° Time: 30min. \rightarrow 2 to 3 min. \rightarrow 30 min. \rightarrow 2 to 3 minutes 10 cycles
11.Temperature cycle	Insulation resistance: 10 MΩ min. (when dry)	7 cycles (168 hours) at -10 to 65℃, humidity of 90 to 98%
12.Salt spray	Contact resistance: 70 mΩ max.	48 hours, 5% solution of salt water
13.Solderablity	Wet state, solder coverage area 95% min.	Solder temperature 245°C, immersion time 2 to 3 seconds

Note 1: The term "storage" refers to connectors stored for a long period of time prior to mounting and use.

■Materials and Finish

Part	Material	Finish	Remarks
Insulator	Synthetic resin	Color: Black	UL94V-0
Contacts	Copper alloy	Contact area: Gold plated Lead area: Gold plated	
Shell	Copper alloy	Tin plated	

■Ordering information

$$\frac{\mathsf{UX60S}}{0} \ \frac{\mathsf{C}}{2} \ - \ \frac{\mathsf{MB}}{8} \ - \ \frac{\mathsf{5}}{0} \ \frac{\mathsf{S}}{6} \ \frac{\mathsf{T}}{6}$$

Series name	UX60S (Mini - USB, Receptacle, reduced size)
Mating side configuration	C : Standard
	A : With interface entry angle
Connector style	MB : Mini-B receptacle
4 Number of contacts	5
6 Contact type	S : Female
6 Shell termination style	T : SMT
	8 : Solder, through hole (solder tab length 0.8mm)

•Latest Engineering Drawings containing more information may be requested using exact part numbers from individual pages of this catalog.

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Receptacle -With interface entry angle

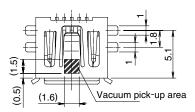


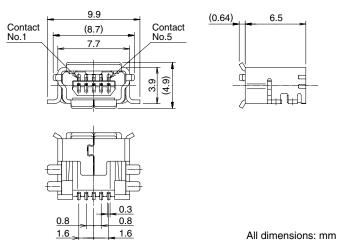
8.7 4.9 0.8 1.6 1.6 0.8 0.5	
PCB edge Outline of the connector 7.7 10.9	(0.5) 0.80 1.3 1.8 5.6 6.5

Part No.	CL No.	RoHS
UX60SA-MB-5ST	240-0015-3	YES

Note 1: Tape and reel packaging (1,000 pieces/reel).

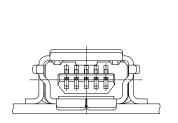
Order by number of reels.

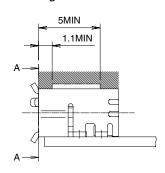


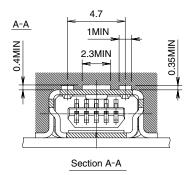


■Recommended clearance areas

Dimensions shown in the shaded areas (in the illustrations below) must be free of any materials or components, as this may interfere with the free movement of the ground contacts.

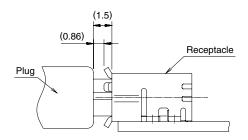






Mated Assembly – Receptacle - with interface entry angle

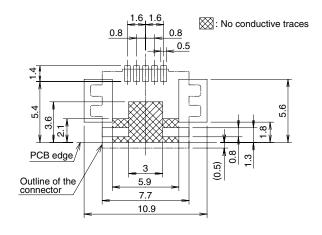
●Shown for Reference



All dimensions: mm

●Receptacle - Standard - Shell SMT

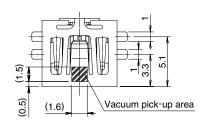


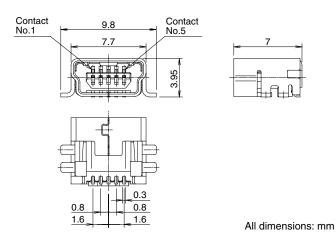


Part No. CL No. RoHS UX60SC-MB-5ST 240-0016-6 YES

Note 1: Tape and reel packaging (1,000 pieces/reel).

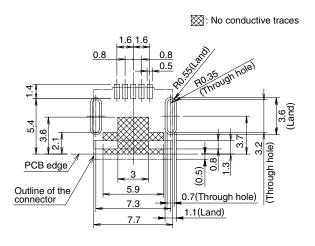
Order by number of reels.





Receptacle - Standard - Shell through Hole

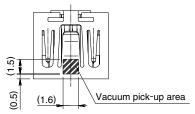


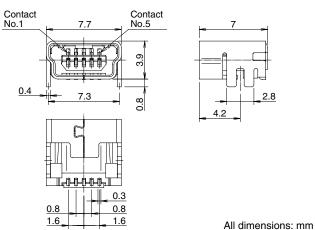


Part No.	CL No.	RoHS
UX60SC-MB-5S8	240-0020-3	YES

Note 1: Tape and reel packaging (1,000 pieces/reel).

Order by number of reels.

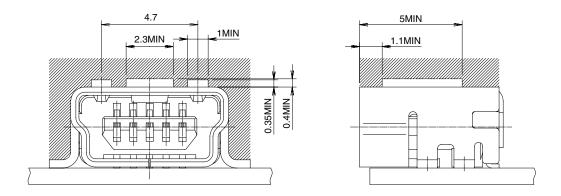




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■Recommended clearance areas

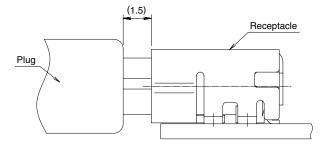
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All dimensions: mm

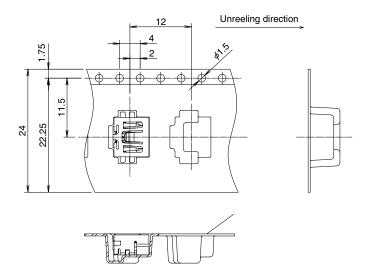
Mated Assembly – Receptacle

●Shown for Reference

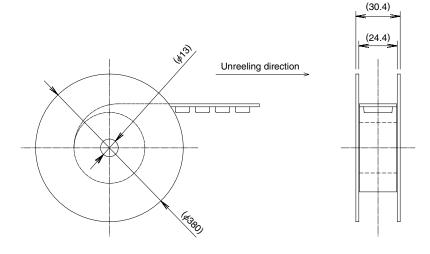


◆ Packaging Specifications

Embossed carrier tape dimensions



Reel Dimensions



●Lead-free solder paste

