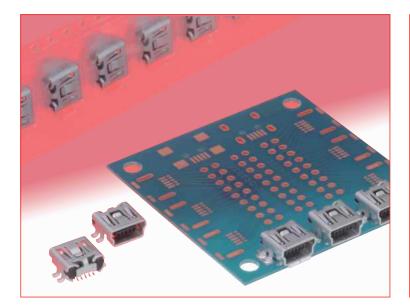
The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS produces have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at www.hirose-connectors.com, or contact your Hirose sales representative.

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.

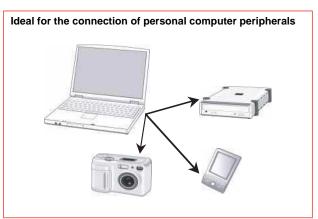
4. RoHS compliant

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. All non-RoHS x cors share by thing the convertise, since the construction of the construct

Specifications

Potingo	Voltage rating	5 V AC	Operating temperature range	-30 to +75℃
Ratings	Current rating	1 A	Storage temperature range	-40 to +85°C (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 m Ω 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	no damage, cracks of parts dislocation.	Acceleration of 490m/s ² , 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°C $\rightarrow +20°C$ to 35°C $\rightarrow +85°C \rightarrow +20°C$ to 35°CTime: 30min. $\rightarrow 2$ to 3 min. $\rightarrow 30$ min. $\rightarrow 2$ to 3 min. $\rightarrow 2$ to 3 min.	
11.Temperature cycle	Insulation resistance: 10 M Ω min. (when dry)	7 cycles (168 hours) at -10 to 65° C , 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	



The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS products have been discontinued, or will be disconting to the standard level of the standard tative.

Ordering information

	$\frac{UX60S}{0} \frac{C}{0}$	$- \frac{MB}{e} - \frac{5}{4} \frac{S}{5} \frac{T}{5}$
1	Series name	UX60S (Mini - USB, Receptacle, reduced size)
2	Mating side configuration	C : Standard
		A : With interface entry angle
6	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)

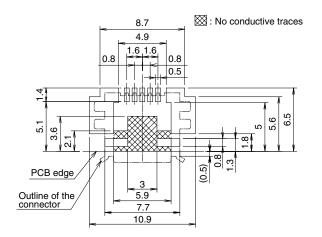
•Latest Engineering Drawings containing more information may be requested using exact part numbers from individual pages of this catalog.

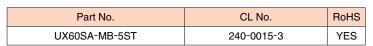
The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHSXXXXXSIPTERS diminity con web disc, since the close the close transity on the difference in the difference of the close of

•Receptacle -With interface entry angle



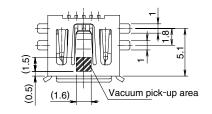
Recommended PCB mounting pattern





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

Order by number of reels.



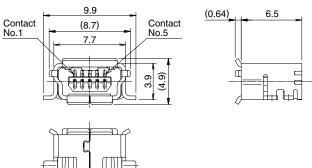
0.3

0.8

1.6

0.8

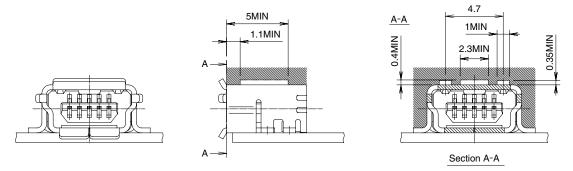
1.6



All dimensions: mm

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.

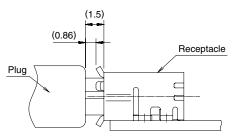


Mated Assembly – Receptacle - with interface entry angle

Shown for Reference

heet.su

Downloaded from



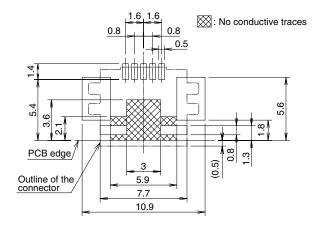
All dimensions: mm

The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS products have been discontinued, or will be disconting to the Start of the Start web the start of the second start of the start of the second start of the second start of the start of the second start of the second

●Receptacle - Standard – Shell SMT



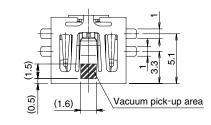
Recommended PCB mounting pattern

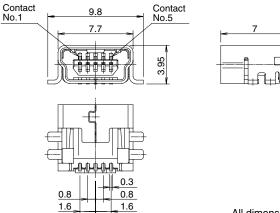


Part No. CL No. RoHS UX60SC-MB-5ST 240-0016-6 YES

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

Order by number of reels.



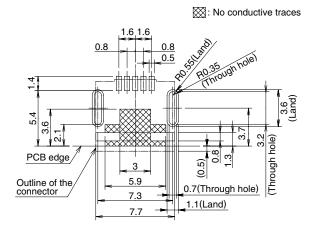


All dimensions: mm

Receptacle - Standard - Shell through Hole

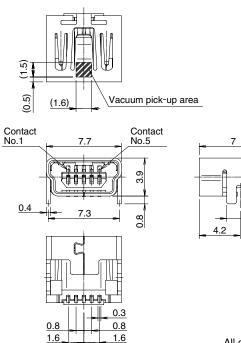


Recommended PCB mounting pattern



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.



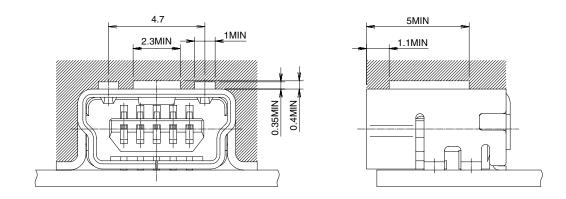
All dimensions: mm

2.8

The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-Rohowson start best with the disconting of the

Recommended clearance areas

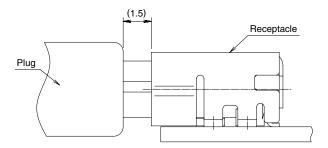
Dimensions shown in the shaded areas (in the illustrations below) must be free of any materials or components, as this may interfere with the free movement of the ground contacts.



All dimensions: mm

Mated Assembly – Receptacle

Shown for Reference

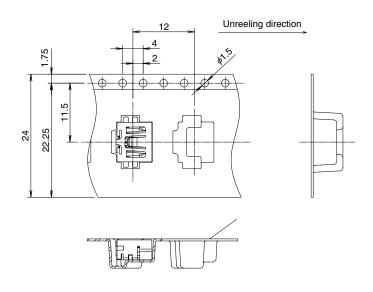




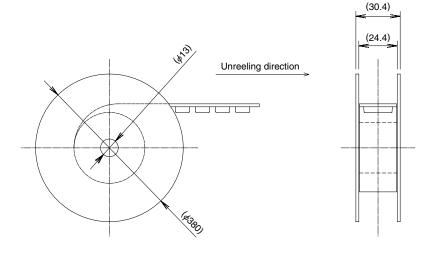
The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS products have been discontinued, or will be discontined to will be discontine to the second and the second and the second at the

Packaging Specifications

Embossed carrier tape dimensions

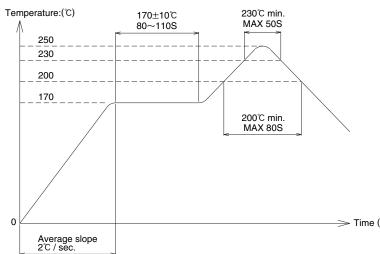


Reel Dimensions



Recommended temperature profile

●Lead-free solder paste



HRS test condition

Solder composition : Paste Cu/ 96.5% Sn/3.0% Ag/0.5% Test board : Glass epoxy 35mm×35mm×0.8mm thick

The temperature profile is based on the shown conditions. In individual applications the temperature may vary, depending on solder paste type, volume/thickness and board size/thickness. Consult your solder paste and equipment manufacturer for specific recommendations.