

Title of Document:	Request for Change	Issue No. G25-01534	Rev. 0
Customer:		Issue date: March 6, 2025	
Title subject:	PH connector header (Through-hole type): Consolidation from the low insertion force type header to the standard type header	Revision date:	

The PH connector header (through-hole type) is available in two versions: low insertion force type and standard type. However, due to the following reasons, we are currently proceeding with the consolidation from the low insertion force type to the standard type.

Therefore, we kindly request your understanding and cooperation in transitioning the products sold to your company from the low insertion force type to the standard type.

1. Target product

PH connector (Through-hole type)

Low insertion force type header: (B/S)*B-PH-K(B)L(C) - # (LF)(SN)()

Note₁) “*” represents the number of circuits, and “#” represents a letter that indicates the color tone.
(See the Appenfix for details.)

2. Contents

We kindly request the transition from the PH connector low insertion force type header to the standard type header. (please refer to the Appendix).

The only difference between the low insertion force type and the standard type is the material of the posts; there are no differences in any other product specifications.

- Post material: Copper alloy (low insertion force type header)
Brass (standard type header)

Additionally, there is no significant difference in product performance between the low insertion force type and the standard type (please refer to the test reports listed below).

- Test reports: R25-0112 / Mating the PH connector socket
R25-0113 / Mating the CK connector socket

3. Reasons of the consolidation

Around 40 years ago, during the eutectic solder era, the low insertion force type header was developed as a version of the standard type header, featuring a post-plating specification (reflow-processed eutectic plating).

Due to the transition of our products to lead-free soldering, the post-plating specification of the low insertion force type header has been changed to reflow-processed tin plating, which is the same as that of the standard type header.

As a result, despite having nearly identical product specifications and performance, there are currently two part numbers: one for the standard type and one for the low insertion force type.

4. Transition period

Regarding the transition period, we kindly request that it be determined in consultation with your company. Your thought understanding and consideration would be very much appreciated.

-End-

Prepared by: <i>K. Saito</i>	Checked by: <i>S. Handa</i>	Reviewed by: -	Approved by: <i>Y. Kōkumai</i>
---------------------------------	--------------------------------	-------------------	-----------------------------------

G25-01534 Appendix

PH connector

Alternative products list due to consolidation of low insertion force type header into the standard type header

March 6, 2025

1) Without boss

Group	Low insertion force type header		Standard type header (Alternative product Housing color: Natural)	
	Part number		Part number	
A Top type Without boss	①	(D)B2B-PH-KL (LF)(SN)(PP)	①*	(D)B2B-PH-K-S (LF)(SN)(PP)
	②	(D)B3B-PH-KL (LF)(SN)(P)	②*	(D)B3B-PH-K-S (LF)(SN)(P)
	③	(D)B4B-PH-KL (LF)(SN)(PP)	③*	(D)B4B-PH-K-S (LF)(SN)(PP)
	④	(D)B5B-PH-KL (LF)(SN)(P)	④*	(D)B5B-PH-K-S (LF)(SN)(P)
	⑤	(D)B6B-PH-KL (LF)(SN)(P)	⑤*	(D)B6B-PH-K-S (LF)(SN)(P)
	⑥	(D)B7B-PH-KL (LF)(SN)(P)	⑥*	(D)B7B-PH-K-S (LF)(SN)(P)
	⑦	(D)B8B-PH-KL (LF)(SN)(P)	⑦*	(D)B8B-PH-K-S (LF)(SN)(P)
	⑧	(D)B9B-PH-KL (LF)(SN)(P)	⑧*	(D)B9B-PH-K-S (LF)(SN)(P)
	⑨	(D)B10B-PH-KL (LF)(SN)(P)	⑨*	(D)B10B-PH-K-S (LF)(SN)(P)
	⑩	(D)B11B-PH-KL (LF)(SN)(P)	⑩*	(D)B11B-PH-K-S (LF)(SN)(P)
	⑪	(D)B12B-PH-KL (LF)(SN)(P)	⑪*	(D)B12B-PH-K-S (LF)(SN)(P)
	⑫	(D)B13B-PH-KL (LF)(SN)(P)	⑫*	(D)B13B-PH-K-S (LF)(SN)(P)
	⑬	(D)B14B-PH-KL (LF)(SN)(P)	⑬*	(D)B14B-PH-K-S (LF)(SN)(P)
	⑭	(D)B15B-PH-KL (LF)(SN)(P)	⑭*	(D)B15B-PH-K-S (LF)(SN)(P)
	⑮	(D)B16B-PH-KL (LF)(SN)(P)	⑮*	(D)B16B-PH-K-S (LF)(SN)(P)
B Side type Without boss	①	(D)S2B-PH-KL (LF)(SN)(PP)	①*	(D)S2B-PH-K-S (LF)(SN)(PP)
	②	(D)S3B-PH-KL (LF)(SN)	②*	(D)S3B-PH-K-S (LF)(SN)
	③	(D)S4B-PH-KL (LF)(SN)	③*	(D)S4B-PH-K-S (LF)(SN)
	④	(D)S5B-PH-KL (LF)(SN)(PP)	④*	(D)S5B-PH-K-S (LF)(SN)(PP)
	⑤	(D)S6B-PH-KL (LF)(SN)(PP)	⑤*	(D)S6B-PH-K-S (LF)(SN)(PP)
	⑥	(D)S7B-PH-KL (LF)(SN)	⑥*	(D)S7B-PH-K-S (LF)(SN)
	⑦	(D)S8B-PH-KL (LF)(SN)	⑦*	(D)S8B-PH-K-S (LF)(SN)
	⑧	(D)S9B-PH-KL (LF)(SN)	⑧*	(D)S9B-PH-K-S (LF)(SN)
	⑨	(D)S10B-PH-KL (LF)(SN)	⑨*	(D)S10B-PH-K-S (LF)(SN)
	⑩	(D)S11B-PH-KL (LF)(SN)	⑩*	(D)S11B-PH-K-S (LF)(SN)
	⑪	(D)S12B-PH-KL (LF)(SN)	⑪*	(D)S12B-PH-K-S (LF)(SN)
	⑫	(D)S13B-PH-KL (LF)(SN)	⑫*	(D)S13B-PH-K-S (LF)(SN)
	⑬	(D)S14B-PH-KL (LF)(SN)	⑬*	(D)S14B-PH-K-S (LF)(SN)
	⑭	(D)S15B-PH-KL (LF)(SN)	⑭*	(D)S15B-PH-K-S (LF)(SN)
	⑮	(D)S16B-PH-KL (LF)(SN)	⑮*	(D)S16B-PH-K-S (LF)(SN)

2) Without boss and Reverse polarity type products

Group	Low insertion force type header		Standard type header (Alternative product Housing color: Natural)	
	Part number		Part number	
C Top type With boss (B) Reverse polarity type (C)	①	(D)B2B-PH-KBL-S (LF)(SN)(PP)	①*	(D)B2B-PH-KB-S (LF)(SN)(PP)
	②	(D)B2B-PH-KBLC-H (LF)(SN)(PP)	②*	(D)B2B-PH-KBC-S (LF)(SN)(PP)
	③	(D)B3B-PH-KBL-S (LF)(SN)(P)	③*	(D)B3B-PH-KB-S (LF)(SN)(P)
	④	(D)B3B-PH-KBLC-H (LF)(SN)(P)	④*	(D)B3B-PH-KBC-S (LF)(SN)(P)
	⑤	(D)B4B-PH-KBL-S (LF)(SN)(PP)	⑤*	(D)B4B-PH-KB-S (LF)(SN)(PP)
	⑥	(D)B4B-PH-KBL-H (LF)(SN)(PP)	⑥*	(D)B4B-PH-KB-S (LF)(SN)(PP)
	⑦	(D)B4B-PH-KBLC-H (LF)(SN)(PP)	⑦*	(D)B4B-PH-KBC-S (LF)(SN)(PP)
	⑧	(D)B5B-PH-KBL-S (LF)(SN)(P)	⑧*	(D)B5B-PH-KB-S (LF)(SN)(P)
	⑨	(D)B5B-PH-KBL-H (LF)(SN)(P)	⑨*	(D)B5B-PH-KB-S (LF)(SN)(P)
	⑩	(D)B6B-PH-KBL-H (LF)(SN)(P)	⑩*	(D)B6B-PH-KB-S (LF)(SN)(P)
	⑪	(D)B6B-PH-KBLC-H (LF)(SN)(P)	⑪*	(D)B6B-PH-KBC-S (LF)(SN)(P)
	⑫	(D)B8B-PH-KBL-H (LF)(SN)(P)	⑫*	(D)B8B-PH-KB-S (LF)(SN)(P)
	⑬	(D)B9B-PH-KBL-H (LF)(SN)(P)	⑬*	(D)B9B-PH-KB-S (LF)(SN)(P)
	⑭	(D)B9B-PH-KBLC-H (LF)(SN)(P)	⑭*	(D)B9B-PH-KBC-S (LF)(SN)(P)
	⑮	(D)B12B-PH-KBL-H (LF)(SN)(P)	⑮*	(D)B12B-PH-KB-S (LF)(SN)(P)
	⑯	(D)B13B-PH-KBL-H (LF)(SN)(P)	⑯*	(D)B13B-PH-KB-S (LF)(SN)(P)
D Side type Reverse polarity type (C)	①	(D)S4B-PH-KLC-S (LF)(SN)	①*	(D)S4B-PH-KC-S (LF)(SN)
	②	(D)S4B-PH-KLC-H (LF)(SN)	②*	(D)S4B-PH-KC-S (LF)(SN)
	③	(D)S5B-PH-KLC-H (LF)(SN)	③*	(D)S5B-PH-KC-S (LF)(SN)
	④	(D)S5B-PH-KLC-S (LF)(SN)(PP)	④*	(D)S5B-PH-KC-S (LF)(SN)(PP)
	⑤	(D)S7B-PH-KLC-H (LF)(SN)	⑤*	(D)S7B-PH-KC-S (LF)(SN)
	⑥	(D)S10B-PH-KLC-H (LF)(SN)	⑥*	(D)S10B-PH-KC-S (LF)(SN)