

**Header Assembly**

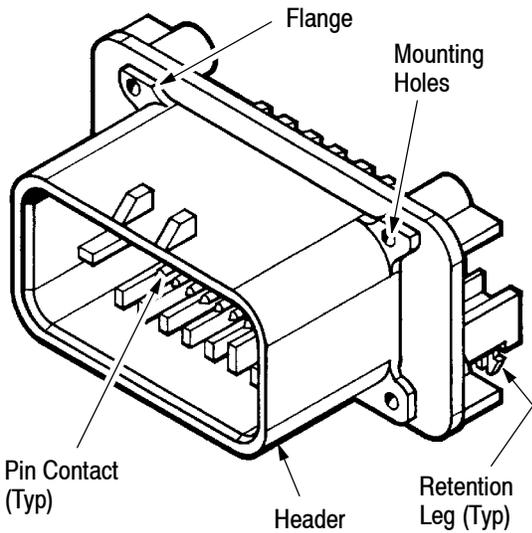
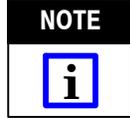


Figure 1

**1. INTRODUCTION**

This instruction sheet provides printed circuit (pc) board layout requirements and panel cutout requirements for the AMPSEAL 23-Position Automotive Header Assembly shown in Figure 1.



For connector sizes other than the one shown, Obtain Customer Drawings by contacting TE Connectivity Engineering at the PRODUCT INFORMATION number at the bottom of this page.



Dimensions are in millimeters. Figures and illustrations are for reference only and are not drawn to scale.

Reasons for reissue of this sheet are provided in Section 7, REVISION SUMMARY.

**2. DESCRIPTION**

The header assembly consists of a header preloaded with right-angle, solder-type pin contacts. Built-in retention legs provide fastening of the header to the pc board. Mounting holes are provided in the flange to fasten the header to the panel.

**3. PRINTED CIRCUIT BOARD**

The pc board layout shall be as shown in Figure 2. The pc board thickness shall be 1.57 mm.



The two 2.59 mm diameter mounting holes must be the correct diameter, whether or not they are plated through. If plated through, the retention legs on the header assembly will be soldered to the circuit board, thus providing a mechanical fastening.

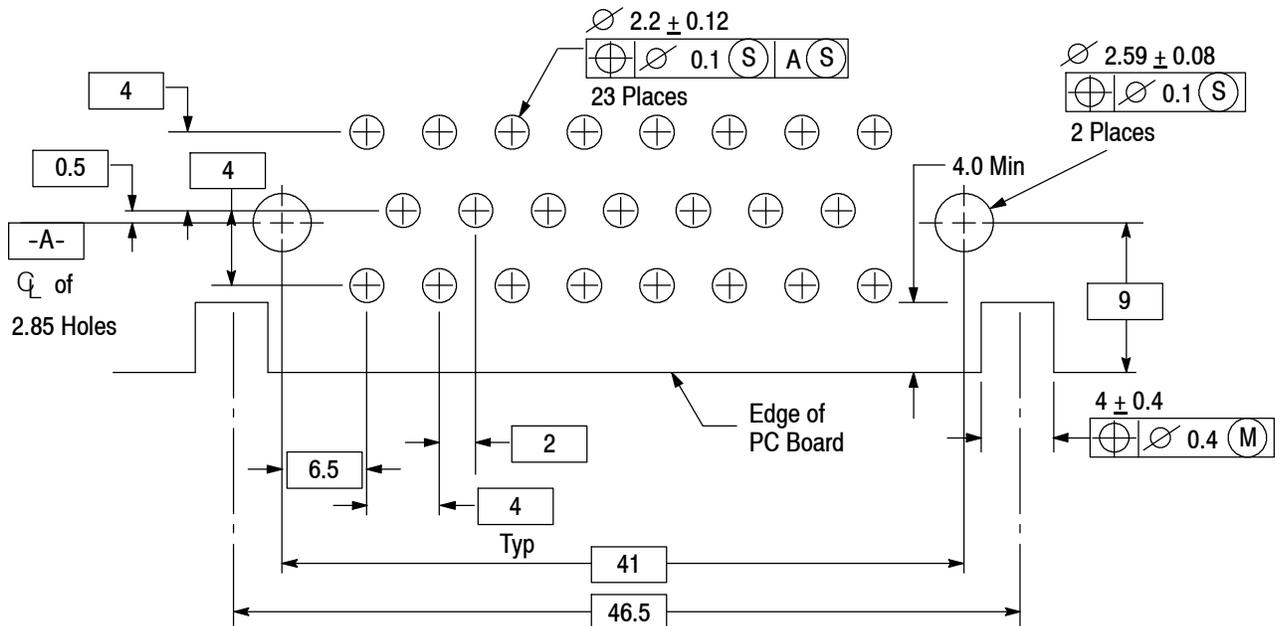


Figure 2

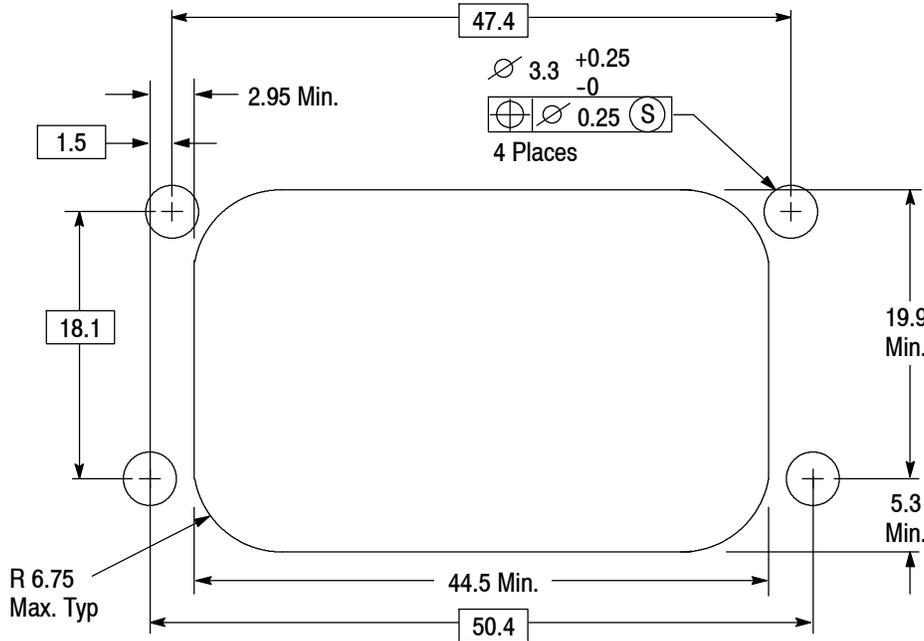


Figure 3

**4. PANEL MOUNTING**

The panel mounting cutout requirements shall be as shown in Figure 3. The maximum panel thickness shall be 5 mm to provide proper clearance for mating the plug assembly.

The header assembly is designed to be fastened to the enclosure by four No. 4 self-tapping screws. The screw length will depend upon panel thickness.

Header assemblies will be provided both with and without a formed-in-place gasket bonded to the flange. For sealing a bare flange to an enclosure, a loose piece gasket will be required.

Each size header has its own specific gasket design. For assistance in choosing the proper gasket, contact the TE Engineering department for information concerning rubber suppliers and recommended gasket profiles. Whether for loose piece or bonded-in-place gaskets, the panel surface must be flat within 0.5 mm and have a surface roughness not in excess of 0.4 micrometer.

**5. ADDITIONAL INFORMATION**

For assembly procedures of the plug connector assembly, refer to Instruction Sheet 408-3229. For

application information on the AMPSEAL product line, refer to Application Specification 114-16016.

**6. CURRENT RATING**

Refer to Figure 4 for current ratings of special-use connectors, AMPSEAL Series 770669 (headers) and 770680 (plugs).

SINGLE-CIRCUIT PLATING	WIRE SIZE (AWG)	CURRENT RATING (MAX.)
Tin	16, 18, and 20	8A
Gold	16	14.5A
	18	13A
	20	11.5A

Figure 4

**7. REVISION SUMMARY**

Revisions to this document include:

- Updated document to corporate requirements
- New logo