Specifications

Soldering temperature: 250°C max. Soldering time: 5 minutes, max., cumulative.



Figure 1. V115FMS75 Connector Assembly

/Inritsu

Integrated V
Connector®
Microstrip to V Female
Part Number
V115FMS75

1. Tools And Materials

The following tools and materials are needed to install V115FMS75 connector. Equivalent tools may be used if recommended tools are not available.

Name	Vendor and Model/Part Number
Solder, 62% Sn, 36% Pb, 2% Ag, or 60% Pb, 40% In, 24 gauge, 0.75 mm (0.030 inch) diameter rosin core	SN62 Kester Co. or Indalloy #206, Indium Corporation
Cleaning Fluid	Isopropyl Al- cohol
Stereo Microscope .07-30X	Bausch & Lomb, Model Stereo Zoom 4
Silver Epoxy	
Rosin Flux 1544	Kester Co.

2. Machining Dimensions

Machining dimensions for required mounting hole is provided in Figure 2.

* Caution:

These connectors are not suitable for use with high-temperature solder such as gold-tin.

NOTE

Depending upon the application, substrate can be soldered to the housing using medium or low temperature solder. The substrate can also be attached to the housing using epoxy.

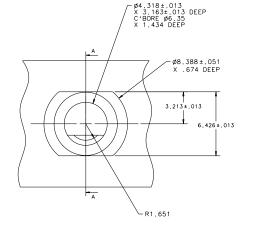
3. Installation of Connector Into Housing

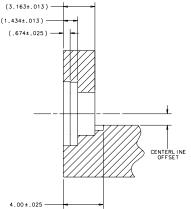
- a. Pre-flux connector and the inner f. walls of the mounting hole.
- Pre-make the solder rings. (Wrap the solder wire around the connector and make one turn to form a solder ring around the connector. Cut the solder wire).
- Place and push the connector into the housing.
- d. Place housing on a hot plate to flow the solder. For Sn62, set the hot

- plate to 200°C. For Indalloy #206, set the hot plate to 250°C.
- When solder starts to melt, push the connector into the housing so that the connector flats are aligned with the housing bore.
 - Remove the housing from the hot plate, keeping the connector firmly pressed to the housing. Allow assembly to cool at room temperature.
- Glean with alcohol or equivalent solvent for removing flux.

NOTE

Visually verify that there is a good solder flow (without any pin-holes) between the outer conductor and the wall of the





V Connector is a trademark of ANRITSU Company. LOCTITE is a trademark of Loctite Corporation.

Figure 2. Machining Dimensions for V115FMS75 Mounting Hole

housing. This will ensure that a hermetic seal is created for the connector assembly.

4. Installation of Substrate (Figures 3 and 4)

- a. Place a small bead of silver epoxy along the length of the connector ground lip. Be careful to not use excessive epoxy so it doesn't wick up the edge of the substrate.
- Install the substrate into the housing d. and make sure the trace is aligned with the connector center pin.
- C. Following the instructions in the V110-1 Installation Note, slide a Stress Relief Contact, V110-1, onto the center conductor aligned so the lip of contact is close to, or touching, e. the trace to which it is to be connected.
- Gap-weld the contact to the trace. If you want to use silver epoxy, place a dot of epoxy on the trace and slide the Stress Relief Contact in place over the dot. Press the tab of the contact into the epoxy to be sure there a good electrical connection.
 - Follow your epoxy manufacturer's recommendations to cure the epoxy.

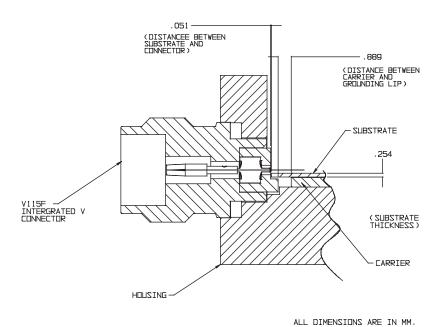


Figure 3. V115FMS75 Assembly

