

Specifications

DC Voltage: 16V maximum
 DC Current: 200 mA maximum
 Power: 2W maximum
 Capacitance: 600 nF minimum
 Frequency Range: 50 kHz - 60 GHz
 Temperature Range: 0°C to +70°C

Material:

Dielectric: Alumina Substrate

Anritsu

DBT60 and DBT60CPW 65 GHz Bias Terminations

Instruction Sheet

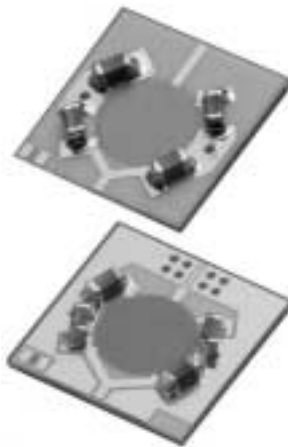


Figure 1. DBT60 and DBT60CPW Bias Terminations

1. Tools and Materials

These tools and materials are needed to install an Anritsu DBT60 or DBT60CPW Bias Termination.

Name	Vendor and Model/Part Number
Hot Plate	H2155 Micro Hot Plate, Thermolyne Baxter Scientific Products
Indium Solder	any indium solder with 80 In, 15 Pb, 5 Ag
Rosin Flux	1544 Kester Co.
Gold Ribbon	1 x 10 Gold Ribbon 1 x 5 Gold Ribbon
Ribbon Welding Machine	any
Cleaning Fluid	isopropyl alcohol

2. Installation Instructions

- Add flux and indium solder to the back side of the DBT60 or DBT60CPW.
- Place the solder preform and the DBT60 or DBT60CPW on top of the indium solder in the housing.
- Preheat the hot plate to 170° C.
- Place the housing, with the DBT60 or DBT60CPW in place, onto the hot plate.
- When the solder starts to melt, add more flux as necessary to cause the solder to flow smoothly around the substrate.
- Remove the housing from the hot plate and let it cool.
- Clean the housing with isopropyl alcohol and allow it to air dry.
- Gap weld a 1x10 gold ribbon from the DBT60 input trace to a 50 ohm transmission line substrate, or gap weld a 1x5 gold ribbon from the DBT60CPW input trace to a 50 ohm transmission line substrate
- Gap weld a 1x10 gold ribbon from the DBT60 or DBT60CPW Bias Input trace to a bias transmission line substrate or to where the bias will be provided.
- For the DBT60CPW, you may optionally connect the grounds together as shown in Figure 5, using 1x10 mil ribbons.

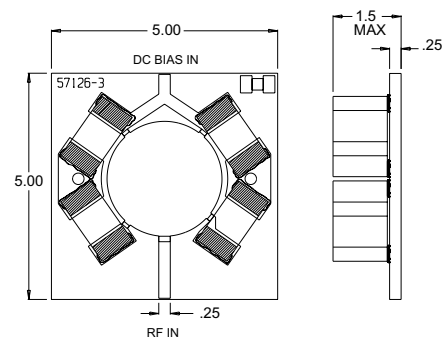


Figure 2. DBT60 Dimensions (mm)

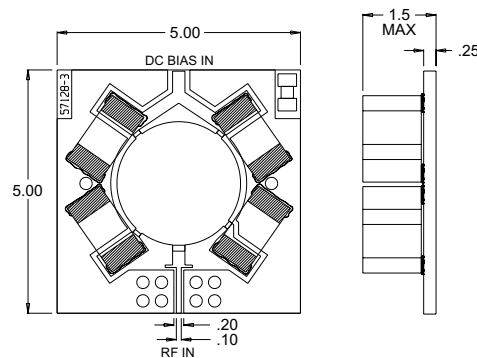


Figure 3. DBT60CPW Dimensions (mm)

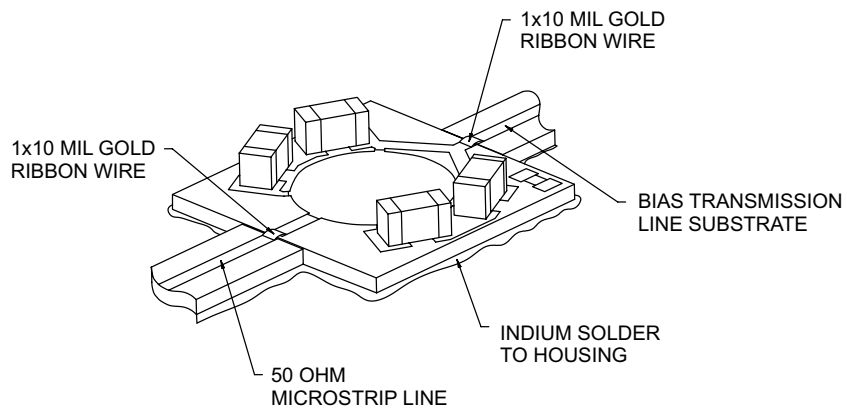


Figure 4. DBT60 Bias Termination

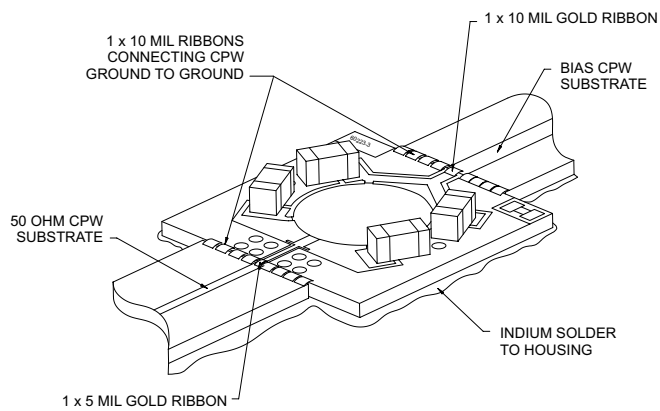


Figure 5. DBT60CPW Bias Termination

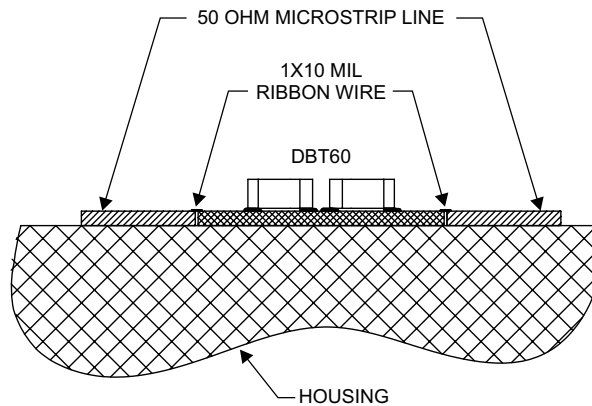


Figure 6. DBT60 Side View