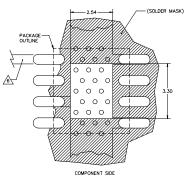
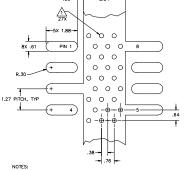


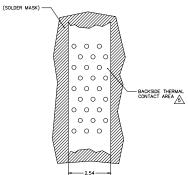
Outline Drawing

AH103 **♦** .25**®** B**®** LOT CODE 7 В 6 LENGTH OF TERMINAL FOR SOLDERING TO A SUBSTRATE DOES NOT INCLUDE INTER-LEAD FLASH OR PROTRUSIONS WHICH SHALL NOT EXCEED .25mm(.010in) PER SIDE. h x 45° INDEX CHAMFER D (4) 6 ⊕ | .25@| C|A@|BS| MILLIMETERS

Mounting Configuration / Land Pattern







ROUND/THERMAL VIAS ARE CRITICAL FOR THE PROPER PERFORMANC THIS DEVICE. VIAS SHOULD USE A .35mm (#80/.0135") DIAMETER RILL AND HAVE A FINAL, PLATED THRU DIAMETER OF .25mm (.010")

- ADD AS MUCH COPPER AS POSSIBLE TO INNER AND OUTER LAYERS NEAR THE PART TO ENSURE OPTIMAL THERMAL PERFORMANCE.
- TO ENSURE RELIABLE OPERATION, DEVICE GROUND PADDLE-TO-GROUND PAD SOLDER JOINT IS CRITICAL.
- ADD MOUNTING SCREWS NEAR THE PART TO FASTEN THE BOARD TO A HEATSINK. ENSURE THAT THE GROUND/THERMAL VIA REGION CONTACTS THE HEATSINK

FOR OPTIMAL THERMAL PERFORMANCE, EXPOSE SOLDERMASK ON BACKSIDE WHERE IT CONTACTS THE HEATSINK.

6 RF TRACE WIDTH DEPENDS UPON THE PC BOARD MATERIAL AND CONSTRUCTION.

USE 1 OZ. COPPER MINIMUM

ALL DIMENSIONS ARE IN MILLIMETERS. ANGLES ARE IN DEGREES.

Product Marking

The component will be marked with an "AH103" designator followed by a four- or five-digit alphanumeric lot code on the top surface of the package. Tape and reel specifications for this part is located on the website in the "Application Notes" section.

ESD / MSL Information



ESD Classification: Class 1B

Value: Passes ≥ 500 V to < 1000 V Test: Human Body Model (HBM) JEDEC Standard JESD22-A114 Standard:

ESD Classification: Class IV Value: Passes ≥ 1000 V

Charged Device Model (CDM) Test: Standard: JEDEC Standard JESD22-C101

MSL Rating: Level 1 at +250 °C convection reflow Standard: JEDEC Standard J-STD-020B

Functional Pin Layout

| Pin | Function |
|-----|-------------------------|
| 1 | Amp2 input |
| 2 | Amp1 output / Bias Amp1 |
| 3 | Ground |
| 4 | RF input (Amp1 input) |
| 5 | Ground |
| 6 | RF output (Amp2 output) |
| 7 | Bias Amp2 |
| 8 | Ground |

The backside paddle is the Source and should be grounded for thermal and electrical purposes. All other pins should be grounded on the PCB.