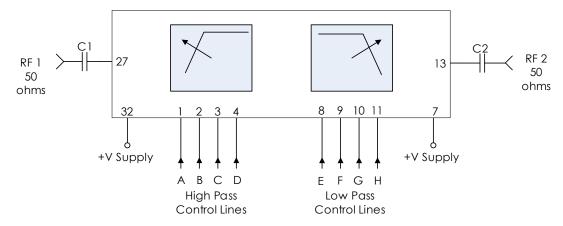


### **TYPICAL APPLICATION**



# RECOMMENDED COMPONENT LIST (OR EQUIVALENT)

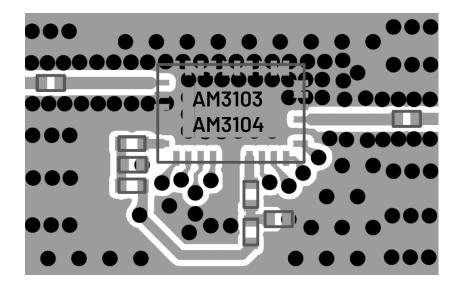
Part	Value	Part Number	Manufacturer
C1, C2	0.1 uF	0402BB104KW160	Passives Plus

## Notes:

- 1. DC blocking capacitors should be low-loss, broadband capacitors for optimum performance.
- 2. VDD and control lines filtered internally providing high frequency isolation to 50 + GHz.
  - a. See AM35 datasheet for more information.
  - b. Adding an additional ferrite bead, LC, or LCL filter on VDD lines is recommended in applications that have space to improve VDD isolation.



### **RECOMMENDED LAYOUT**



#### Notes:

- 1. Power line filtering is made symmetric here such that it is L C L filtering. L C filtering or even a single ferrite bead may be used if space is critical.
- 2. Recommended input trace is grounded coplanar waveguide, 50 ohms.
- 3. IC and RF inputs / outputs should be via fenced.
- 4. Vias should be placed under IC and GND pads (not shown).
- 5. Vias shown are 10mil hole size with 24mil pad.

### **REVISION HISTORY**

Date	Revision	Notes
May 21, 2020	1	Initial release
July 30, 2024	2	Changed to Mercury branding. No content changes.

## For more information, contact: MMICsupport@mrcy.com

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