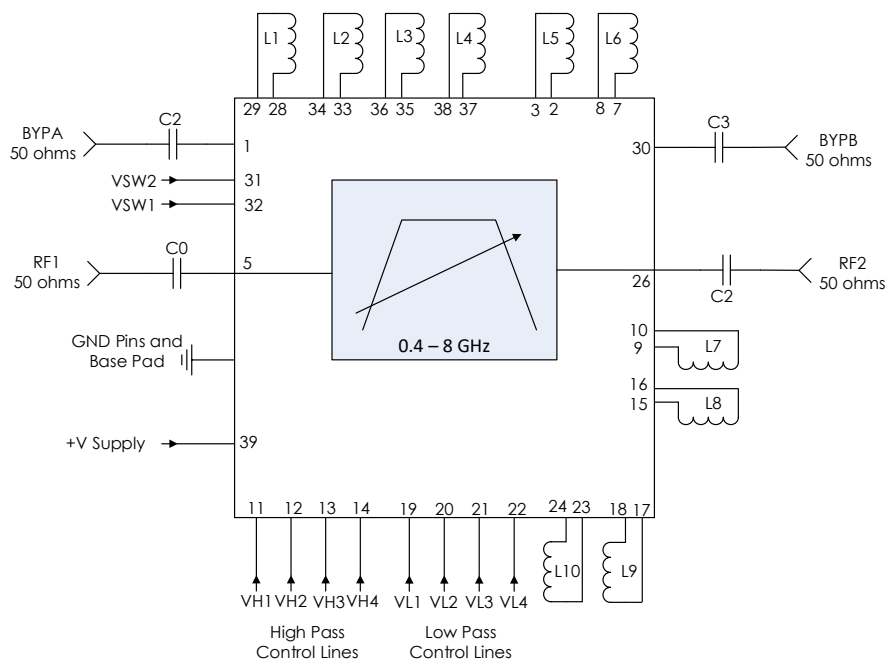


TYPICAL APPLICATION



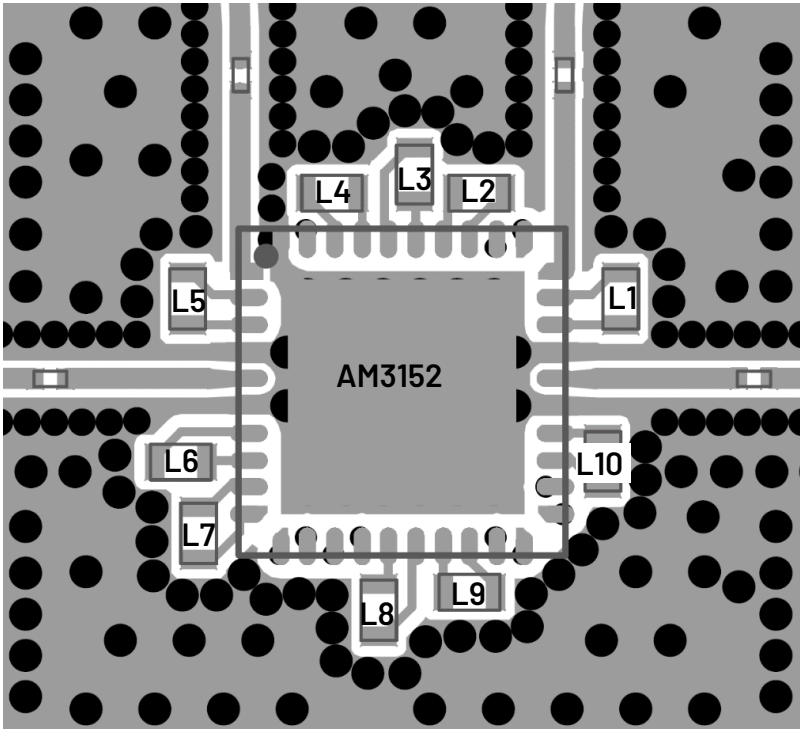
RECOMMENDED COMPONENT LIST (OR EQUIVALENT)

Part	Value	Part Number	Manufacturer
C0 - C3	0.1 uF	0201BB104KW160	Passives Plus
L1	2.0 nH	0402DC-2N0XGRU	Coilcraft
L2	2.8 nH	0402DC-2N8XGRU	Coilcraft
L3, L5	5.1 nH	0402DC-5N1XGRU	Coilcraft
L4	6.7 nH	0402DC-6N7XGRU	Coilcraft
L6, L8	12 nH	0402DC-12NXGRU	Coilcraft
L7	20 nH	0402DC-20NXGRU	Coilcraft
L9	6.6 nH	0402DC-6N6XGRU	Coilcraft
L10	4.7 nH	0402DC-4N7XGRU	Coilcraft

Notes:

1. VDD and control Lines filtered internally providing high frequency isolation.
2. DC blocking capacitors should be high performance, low-loss, broadband capacitors for optimum performance.

RECOMMENDED LAYOUT



Notes:

- 1. Recommended input trace is grounded coplanar waveguide, 50 ohms.
- 2. IC, inductors, and RF inputs / outputs should be via fenced.
- 3. Vias should be placed under IC and GND pads(not shown).
- 4. Vias shown are 10mil hole size with 20mil pad.
- 5. To facilitate a better layout, control lines and power should via directly into board.
 - a. Vias used here are 6mil hole size with 14mil pad.
- 6. Ground pour around inductors should be at least 8mil away to minimize fringing capacitance.
- 7. All inductors should be as close to AM3152 as possible.
- 8. Layout gerbers available upon request.

REVISION HISTORY

Date	Revision	Notes
April 10, 2020	1	Initial release
August 1, 2024	2	Changed to Mercury branding. No content changes.

For more information, contact: MMICsupport@mrchy.com

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