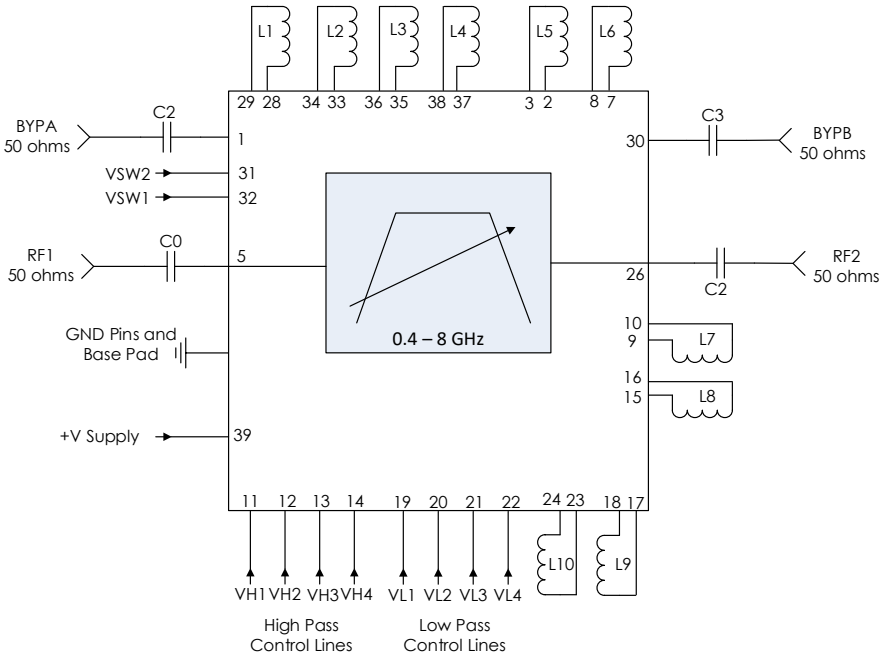
TYPICAL APPLICATION



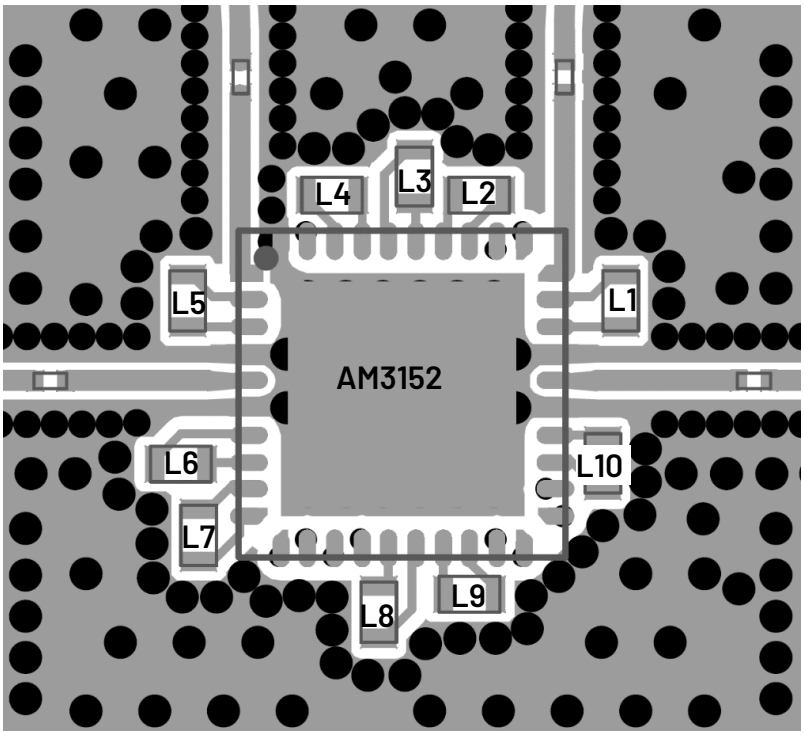
RECOMMENDED COMPONENT LIST (OR EQUIVALENT)

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@mrcy.com