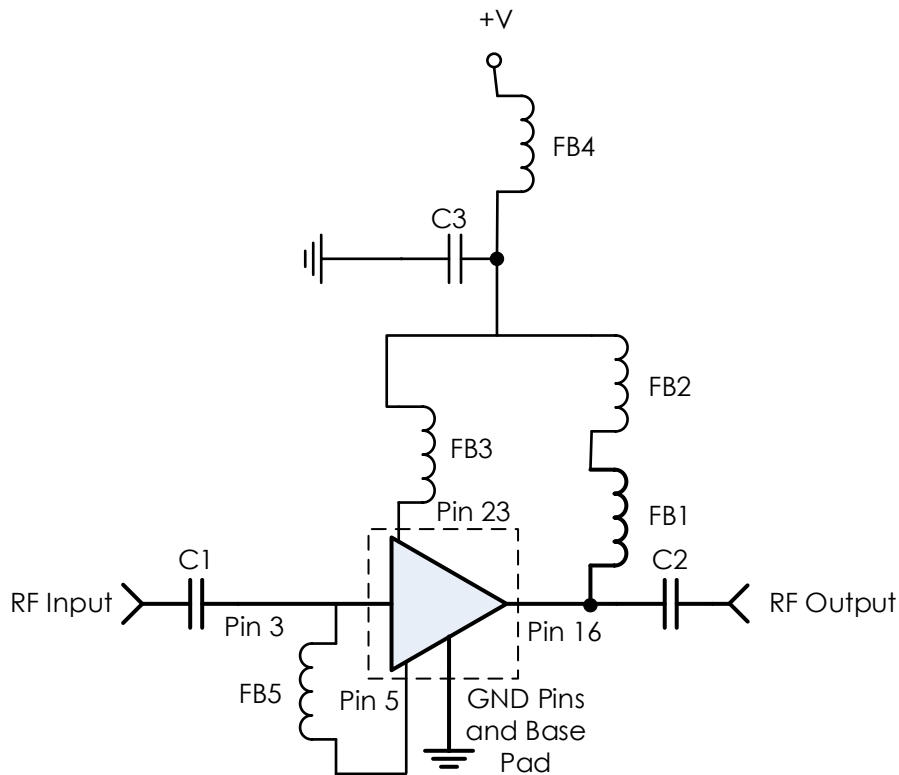


### Typical Application



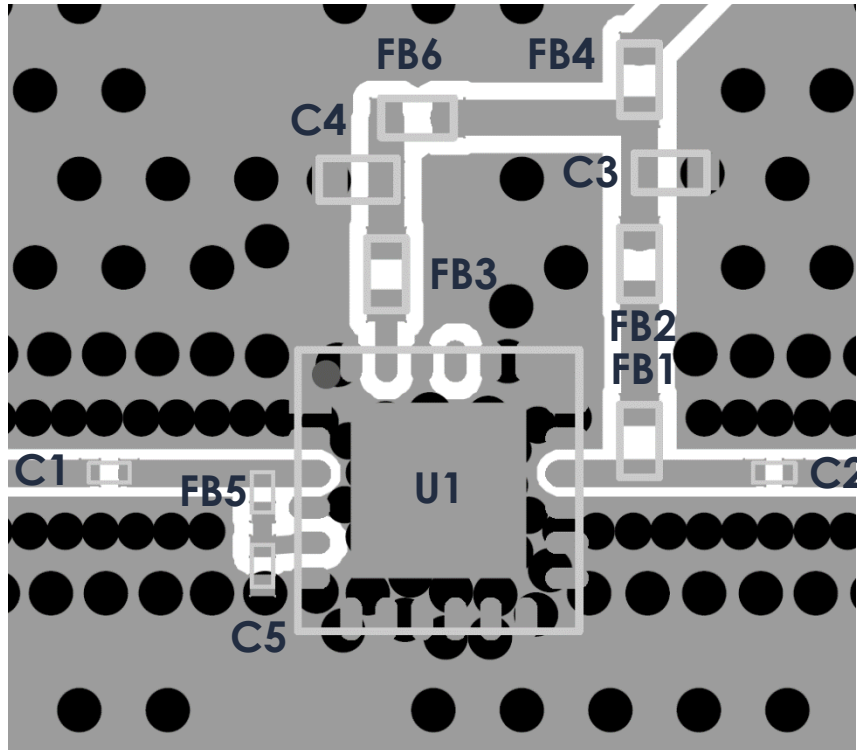
### Recommended Component List (or equivalent):

Part	Value	Part Number	Manufacturer
C1, C2	0.1 $\mu$ F	0402BB104KW106	Passive Plus
C3	0.1 $\mu$ F	GRM155R71C104KA88	Murata
FB1, FB2, FB3	-	MMZ1005A182ET000	TDK
FB4	-	MMZ1005S102HT000	TDK
FB5	-	MMZ0603S102ET000	TDK

### Notes:

1. NC pins may be grounded or left open
2. DC blocking capacitors should be high performance, low-loss, broadband capacitors for optimum performance
3. FB1 and FB2 choke gives best low frequency performance extension without a capacitor to ground
  - a. Low frequency performance may be improved with a conical bias inductor such as BCR-162JL from Coilcraft in replacement of FB1 and FB2

### Recommended Layout



#### Notes:

1. FB6 = FB3 = MMZ1005A182E and C4 = C3 = GRM155R71C104KA88 for additional power supply rejection. C4 and FB6 are not required for part operation though they are recommended if space allows.
2. C5 = 0.1 $\mu$ F = GRM033R61E104KE14J. Addition of C5 optimizes noise figure for 20 MHz to 50 MHz. C5 is not needed if operating outside of this range.
3. FB5 may be an 0402 ferrite bead if desired. In layout above, an 0201 ferrite bead is used to allow for the addition of C5.
4. Recommended input trace is grounded coplanar waveguide, 50 ohms.
5. IC and RF input / output should be via fenced.
6. Vias must be placed under IC and GND pads.
  - a. Atlanta Micro recommends a minimum of a 4 x 4 via array to ensure proper heat dissipation into the PCB.

### Revision History

Date	Revision Number	Notes
June 25, 2020	1	Initial Release