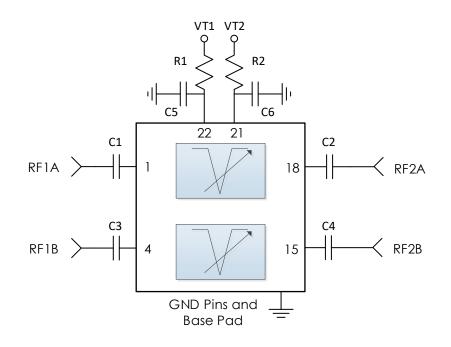


Digitally Tunable Notch

Typical Application



Recommended Component List (or equivalent):

Part	Value	Part Number	Manufacturer
C1 – C4	0.1 µF	0201BB104KW160	Passives Plus
C5, C6	0.1 µF	C1005X7R1H104K050BB	TDK
R1, R2	100 Ω	CRCW0402100RFKED	Vishay

Notes:

- 1. RC filtering on control lines is recommended to prevent digital noise from coupling to RF path.
 - a. Select tune voltage line RC filter values based on desired logic source decoupling and switching speed.

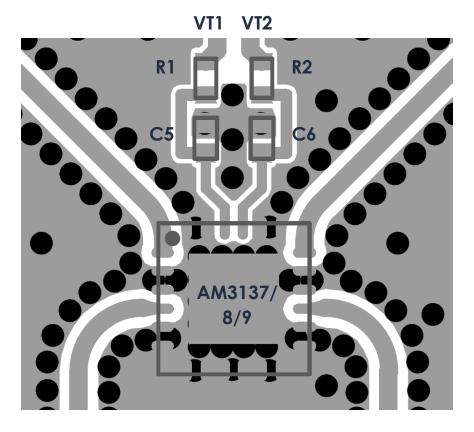
To obtain price, delivery, or to place an order contact <u>sales@atlantamicro.com</u> Atlanta Micro Inc., 3720 Davinci Ct, Suite 125, Peachtree Corners, GA 30092 • Phone: (470) 253-7640 • <u>www.atlantamicro.com</u>



AM3137 / AM3138 / AM3139 Application Note

Digitally Tunable Notch

Recommended Layout



Notes:

- 1. RC control line filtering should be placed as close as possible to IC while still maintaining proper coplanar waveguide structure into RF ports.
- 2. DC blocks C1 C4 not shown here though they still <u>must</u> be installed.
- 3. Recommended input trace is grounded coplanar waveguide, 50 ohms.
- 4. IC and RF inputs / outputs should be via fenced.
- 5. Vias should be placed under IC and GND pads (not shown).
- 6. Vias shown are 10mil hole size with 24mil pad.

Revision History

Date	Revision Number	Notes
June 22, 2020	1	Initial Release