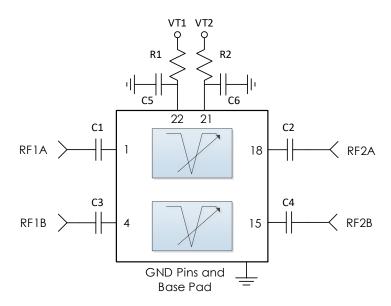


TYPICAL APPLICATION



RECOMMENDED COMPONENT LIST (OR EQUIVALENT)

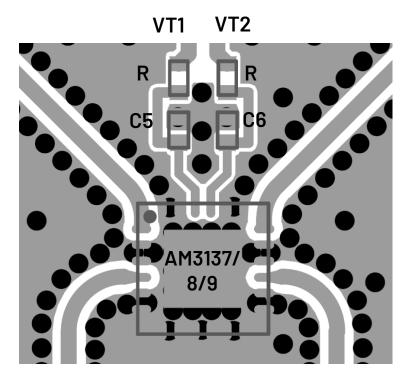
Part	Value	Part Number	Manufacturer
C1 - C4	0.1 uF	0201BB104KW160	Passives Plus
C5, C6	0.1 uF	C1005X7R1H104K050BB	TDK
R1, R2	100 Ω	CRCW0402100RFKED	Vishay

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.



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 must 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	Notes
June 22, 2020	1	Initial release
August 14, 2024	2	Changed to Mercury branding. No content changes.

For more information, contact: MMICsupport@mrcy.com

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