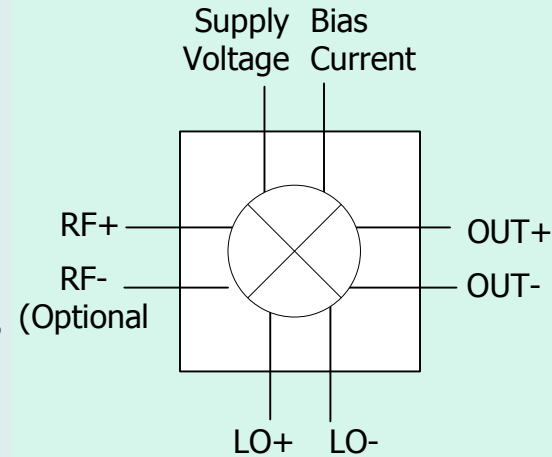


Product Summary

The SN056 is a fully balanced Gilbert gain cell with single/differential RF inputs and differential outputs. It can be used for I/Q demodulation/modulation at intermediate frequencies. The mixer has very low current consumption and can operate at low voltages (as low as 1.2V). The external bias current sets the current consumption of the mixer and can support a range of power consumption as needed.



Performance Summary

	Min	Typ	Max	NOTES
Supply Voltage (V)	1.2		1.8	
Conversion Gain (dB)		-46		LO Voltage amplitude=1.8V
Output Noise @ 1MHz (nV/sqrt(Hz))		8.3		
1db Compression Point (dBm)		15		
LO port to RF port isolation (dB)		110		
LO port to IF port isolation (dB)		90		
Operating Temperature (C)	-40	25	85	
Current Consumption (uA)		1		

Deliverables

- GDSII Layout
- Footprint (LEF)
- Spice Netlist/ Schematics
- Detailed Technical Data
- Silicon Samples