

# Local Oscillator Doubler 2250-4500 MHz

## Model 310-027014-001

### Typical Applications

- Synthesizer Building Block
- EW
- ELINT
- SIGINT

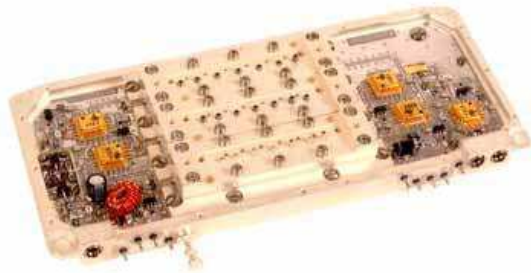
### Features

- Low Spurious less than -60 dBc
- Fast 90 ns switching speed
- High Output + 10 dBm drive Level
- 2 Programmable Outputs
- Null Output Mode
- All Aluminum Housing

### General Description

The 310-027014-001 Doubler provides the system designer with a compact, fast-switching building block for LO multiplication applications. An internal solid-state multiplier provides frequency multiplication by a factor of 2.

Three selective internal bandpass filters offers superior spurious response. Operating band is selected using two band select control pins. An added integral 2-way output switch allows routing of the multiplied input LO signal to other modules based upon the state of an output control line. A NULL mode is also available to disable the module's output.



### Typical Performance

Parameter	Typical Specifications
Input Frequency	2250 to 4500 MHz
Input Level	+4 dBm $\pm$ 2 dB
Output Frequency	4500 to 9000 MHz
Output Level	+10 dBm $\pm$ 2 dB
Switching Speed	90 ns
Phase Noise Degradation	7 dB
DC Power	+5 volts / 180 mA -5 volts / 85 mA
Temperature	0 to +75 °C

All specifications above measured at +25 °C