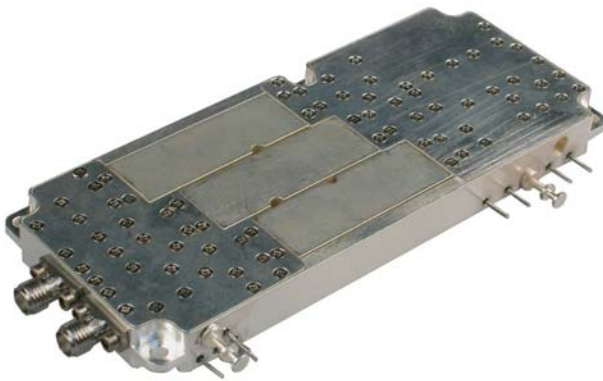


# Local Oscillator Doubler 4500-9000 MHz

## Model 310-027004-006

### Typical Applications

- Synthesizer Building Block
- EW
- ELINT
- SIGINT



### Features

- Low Spurious less than -60 dBc
- Fast 120 ns switching speed
- High Output +7 dBm drive Level
- 3-Band Functionality
- Null Output Mode
- All Aluminum Housing

### General Description

The 310-027004-006 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. Solid State PIN Diode switches provide high-speed selection of the desired operating band. An internal 2-port isolator maintains the output VSWR over the wide operating frequency range. A NULL mode is also available to disable the module's output.

### Typical Performance

Parameter	Typical Specifications
Input Frequency	4500 to 9000 MHz
Input Level	+10 dBm $\pm$ 2 dB
Output Frequency	9.0 to 18.0 GHz
Output Level	+7 dBm $\pm$ 2 dB
Switching Speed	120 ns
VSWR (Input)	1.5:1
Phase Noise Degradation	7 dB
DC Power	+5 volts / 180 mA -5 volts / 45 mA
Temperature	0 to +75 °C

All specifications above measured at +25 °C