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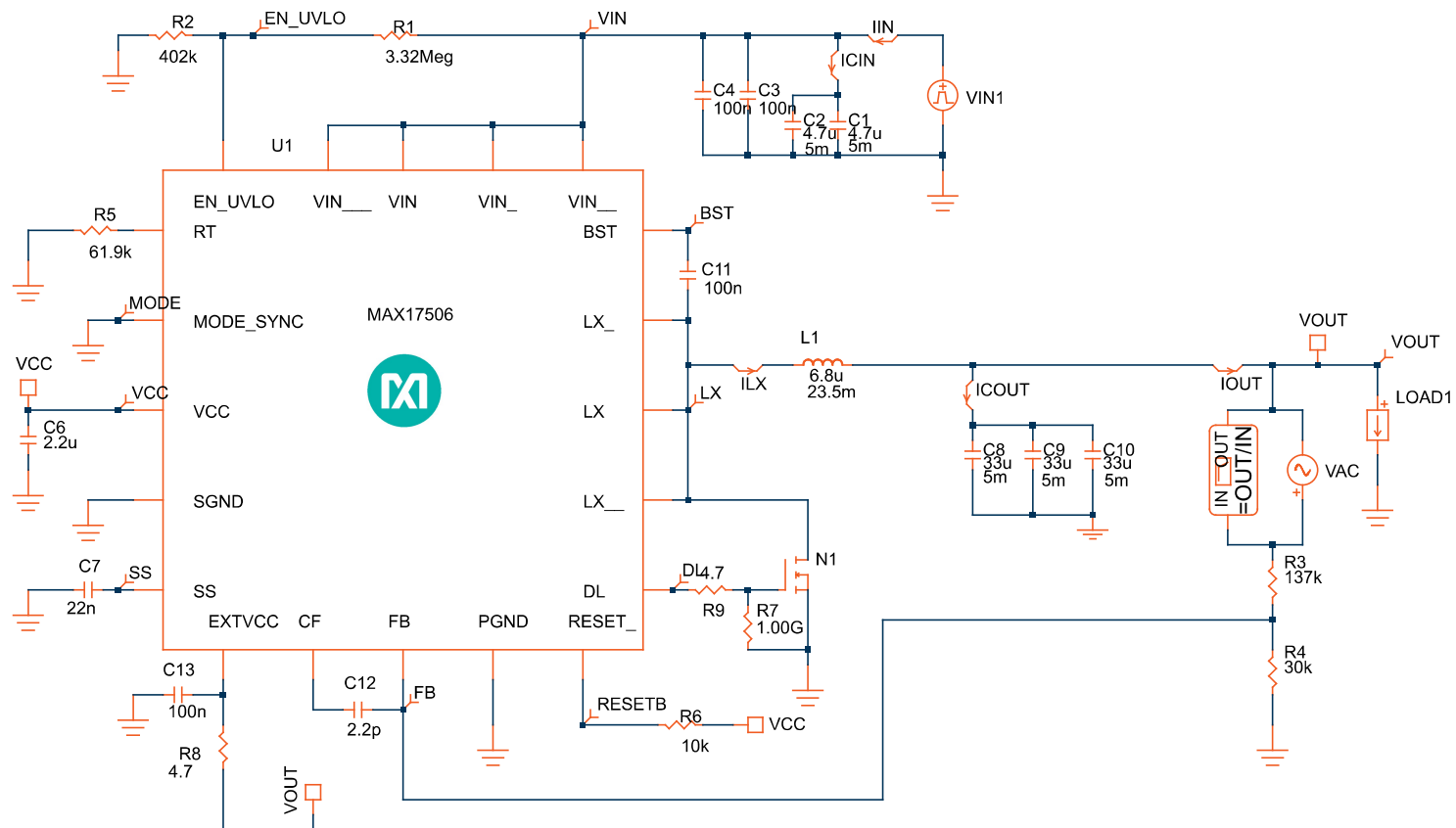
# MAXREFDES1034 MAX17506

EE-Sim® OASIS Schematic Documentation

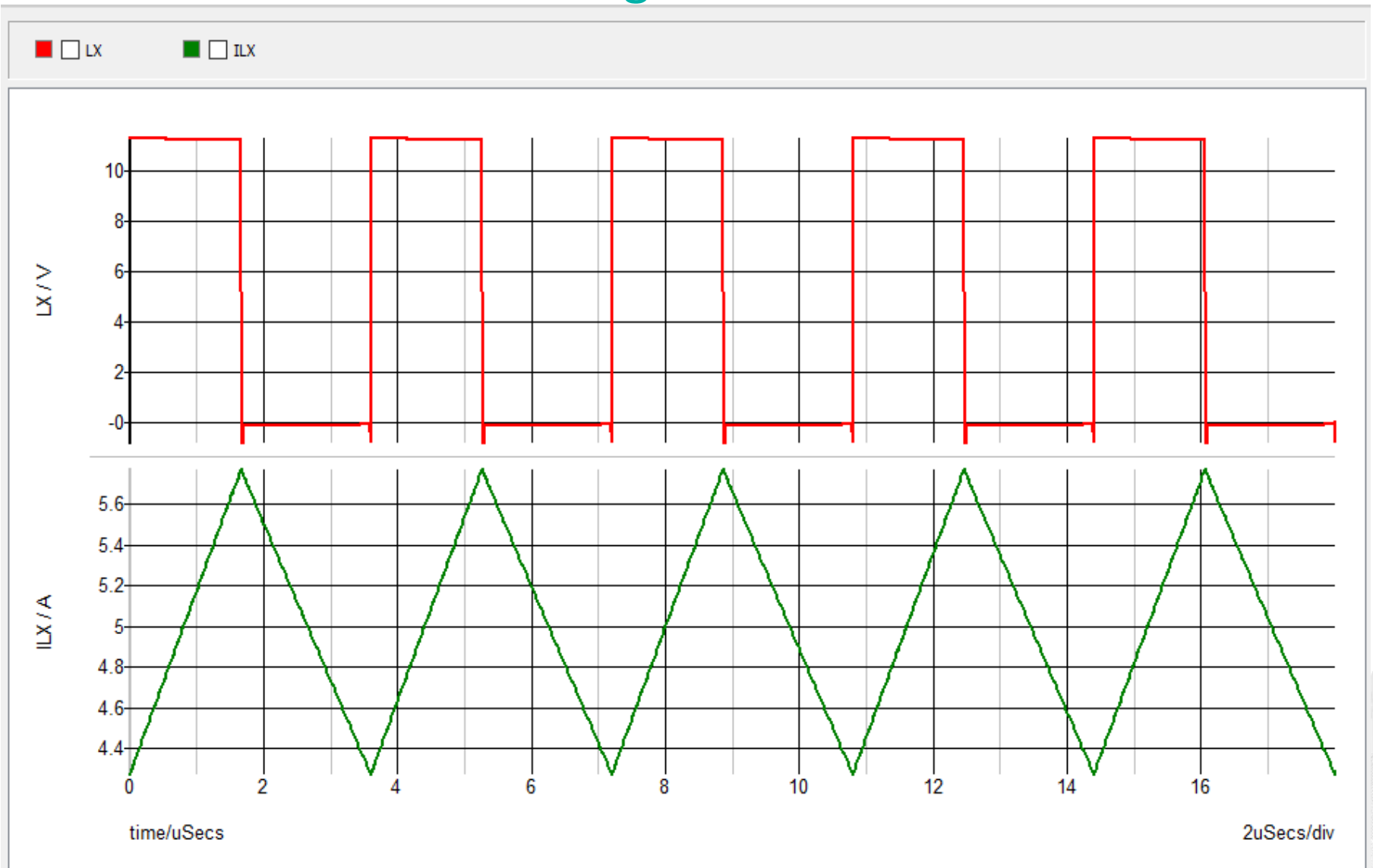
# Design Requirements and Configuration

Primary Specifications	Values	Comments
Part Number:	MAX17506	
Schematic Name:	MAX17506 High-Efficiency Power Supply for TVs Using MAX17506	
Default Simulation:	Steady-State (POP), AC Loop, Load Step, Start up	
Design Requirements:		
Vin(Max):	24V	
Vin(Nom):	11.5V	
Vin(Min):	12V	
Switching Frequency:	400kHz	
Vout:	5V	
Iout:	5A	
SIMPLIS GUI Settings:		
Soft Start:	Enabled	
Use External Clock:	Disabled	

# Schematic



# Switching Waveforms



# Bode Plot

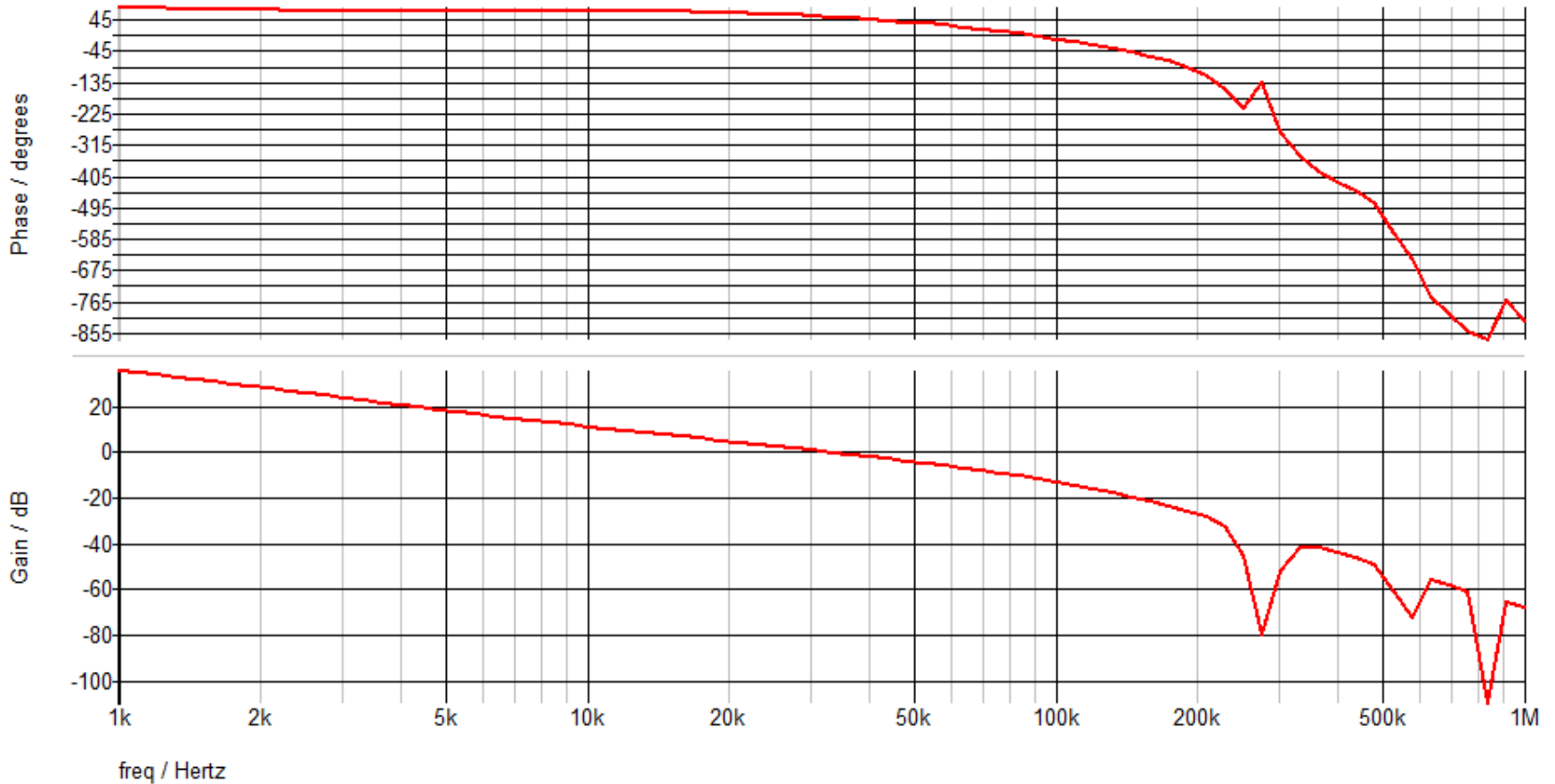
■ □ Phase

Phase Margin 52.01147degrees

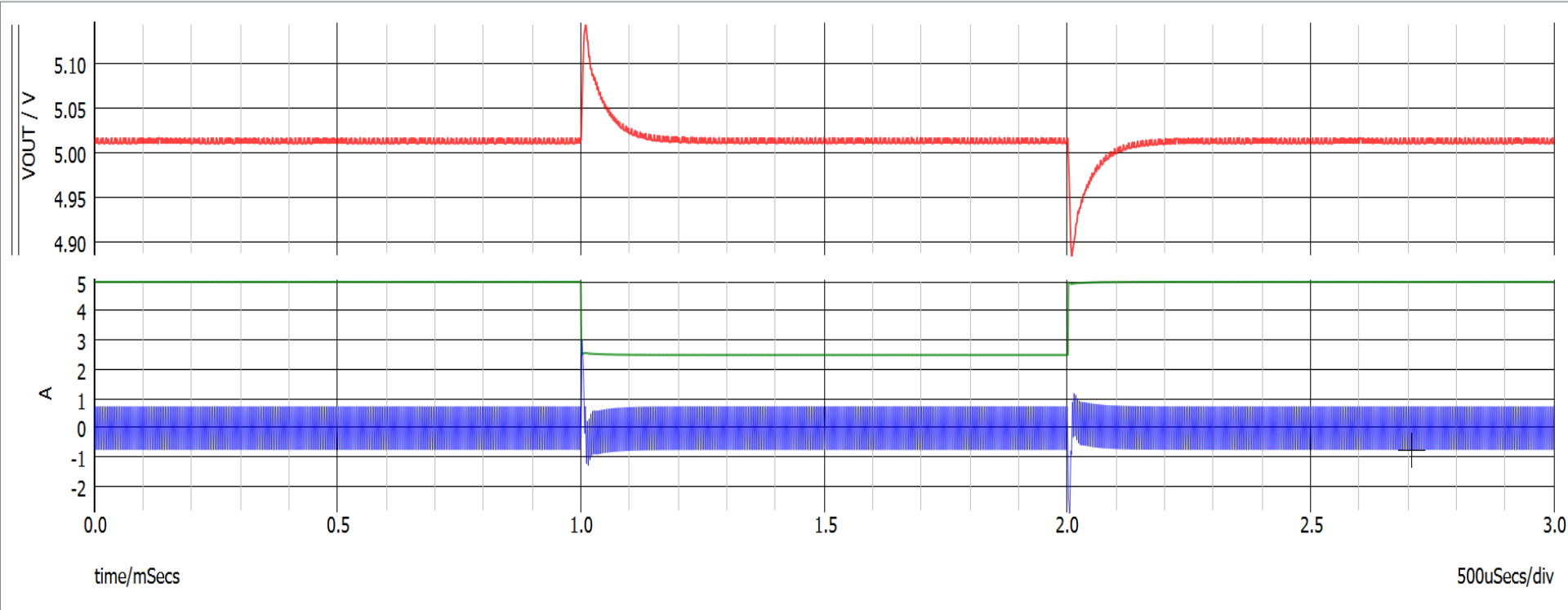
■ □ Gain

Gain Crossover Frequency 31.564774kHz

Gain Margin 11.174914dB



# Load Step Transient Response



Label	Legend
<input type="checkbox"/> VOUT	<span style="color: red;">—</span>
<input type="checkbox"/> ICOUT	<span style="color: blue;">—</span>
<input type="checkbox"/> IOU	<span style="color: green;">—</span>

# Startup

