



SET-TOP BOX SERIES SINGLE LNB CONTROLLER AND POWER SUPPLY IC

Summary

The ZLPM8012 is a power management and control solution for satellite set-top boxes (STBs). Based on an efficient boost converter the ZLPM8012 provides the power supply and all the control signals required by a single port satellite Low Noise Block (LNB). The ZLPM8012 includes an accurate 22kHz tone generator to provide DiSEqC[™] control words or continuous tone for band switching Controlled by I²C[™] and with the minimal external control. components the ZLPM8012 provides a high performing cost efficient solution.

Features

- Efficient boost converter providing an accurate adjustable power supplies LNBs
- Operates from a single rail supply
- Provides a protected output of up to 450mA
- Adjustable current limit for system flexibility
- Designed for stability with low power LNBs
- Provides standard voltage / tone and DiSEqC control signals and allows for regional variations.
- Internal 22kHz generator for DiSEqC control and traditional band switching
- 22kHz maintains shape across all load conditions
- Controlled by I²C
- Built in multiple diagnostics and protection for IC and LNB protection
- Minimal external components for a simple, reliable and cost effective solution
- Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

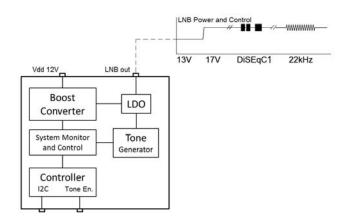
Notes:

 No purposely added lead. Fully EU Directive 2002/95/EC (RoHS) & 2011/65/EU (RoHS 2) compliant.
See http://www.diodes.com for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Applications

- Single tuner Satellite Set-top boxes
 - High current LNBs
 - Stability with minimal current LNBs .
- Satellite PC Cards
- TV's with integrated satellite tuners
- Hybrid Set-top boxes
- Suitable for Digital and Analog satellite systems

System Diagram







To Request This Datasheet In Its Entirety Please Email

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