

Parameters Subject to Change Without Notice

DESCRIPTION

JW[®]4005 is a monolithic linear and switching voltage regulator, specially designed to provide efficient, low noise power to Satellite receiver's RF LNB (Low Noise Block) converter via coaxial cable.

The JW4005 integrates a current mode boost converter followed by a tracking linear regulator. A high switching frequency is chosen to minimize the size of passive filtering components, further assisting in cost reduction. The tracking linear regulator protects the output against overload or short circuit.

The JW4005 provides a number of features described in DiSEqC. For DiSEqC communications, the 22 KHz tone signal can be generated from external clock, all the way down to no-load.

JW4005 is available in TSOT23-6 and ESOP8 packages.

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FEATURES

- DiSEqC 1.x Compatibility
- Up to 1A Continuous Output Current
- 4.5V to 14V Input Voltage
- Programmable VIN UVLO
- Programmable output current limit of LNB (ESOP8)
- Tracking Switch-Mode Power Converter for Lowest Power Dissipation, High Efficiency
- Boost Converter with Internal Switch
- Low Noise Linear Regulator Output
- Selectable Vout compensation for voltage drop on long coaxial cable (ESOP8)
- External Input 22KHz Tone
- Boost Output Over-Voltage Protection LNB Short Circuit Protection with Hiccup Mode
- Over Temperature Protection
- Available in TSOT23-6 and ESOP8

APPLICATIONS

- LNB Power Supply and Control for Satellite Set-Top Boxes

TYPICAL APPLICATION

