



New Product Announcement

ZNBG3118

ZNBG3118 - A flexible bias and control solution for single output LNB's

The ZNBG3118 is a bias and control solution designed for Satellite Low Noise Blocks (LNB's).

Providing three bias stages to power, control and protect the GaAs or HEMT FET low noise amplifier's (LNA's).

The ZNBG3118 integrates an accurate voltage detector to select the LNB polarisation channel and an advanced tone detector to select the local oscillator (LO) for band switching.



The Diodes advantage

The small and flexible solution allows LNB designs to use smaller packaging whilst taking advantage its higher performance and low current operation.

- **Small and flexible solution for LNB bias and control**
 - Allows the same functionality of existing solutions in smaller packaging
 - Suitable for all markets with flexibility given by the applications circuit
 - Designed to drive all common down converter's and LO's
- **GaAs FET LNA bias**
 - Provides up to three bias stages for GaAs and HEMT FET LNA's
 - Dynamic FET protection and temperature compensation
- **Integrated LNB control**
 - Voltage detector for polarisation switching
 - Tone detector for Band switching
 - Advanced unwanted signal rejection to eliminate false switching
- **Low current operation and wide supply voltage range**
 - Operates from 3.3V to 8V rails allowing for any LNB architecture

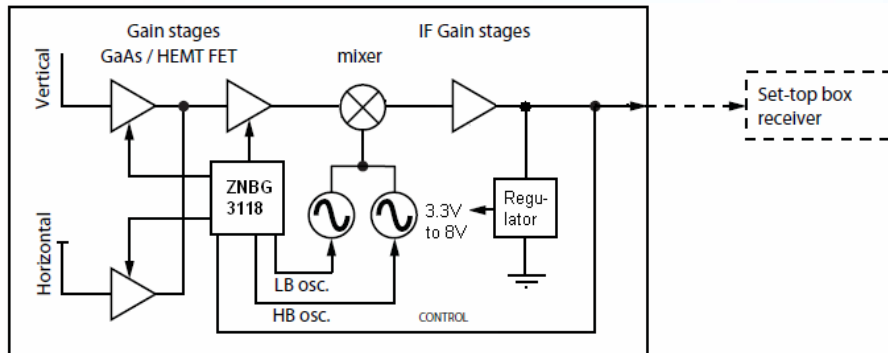
Application Areas

- Single Universal LNB's
- Single band single output LNB's
- Twin LNB's



ZNBG3118 - A flexible bias and control solution for single output LNB's

Single Universal LNB system diagram



Key Parameters

Part Number	Bias Stages						Control		Power and Protection		
	LNA FET Bias Switched	LNA FET Bias Fixed	Mixer Bias	FET Off	LNA Drain Current (mA)	Mixer Drain Current (mA)	Polarisation Threshold	Tone detector	Vcc (V)	Icc (mA)	FET Protection
ZNBG3118JA16TC	2	1	0	-2.5V Gate	0 to 15	NA	14.0 to 15.5	22kHz	3.3V to 8V	1.5	Yes

To find out more information:

Datasheet: www.diodes.com/datasheets/ZNBG3118.pdf

Product page: www.diodes.com/products/catalog/detail.php?item-id=5550&popup=datasheet

DBS page: www.diodes.com/DBS

Diodes regulator product page: <http://www.diodes.com/products/catalog/list.php?parent-id=65>

Ordering information

Device	Packaging	Reel size	Tape width	Quantity
ZNBG3118JA16TC	QFN1633	13" 330mm	8mm	3000