

Section 9: Integrated Circuits

FET Bias Controller Series

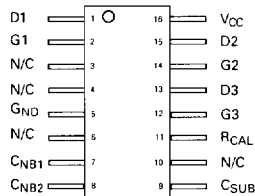
The ZNBG Series are devices designed to meet the bias requirements of GaAs and HEMT FET's commonly used in satellite receiver LNB's, PMR and cellular telephone receivers. The devices require a minimum of external components to provide the drain voltage and drain current control for up to 6 grounded source FETs.

The products generate the negative supply required for biasing the FET gates whilst operating from a single supply. Additional features allow the selection of drive to the FETs such that individual FETs or pairs of FETs can be enabled and disabled. For LNB applications specifically associated with the European ASTRA satellite bands some devices contain 22kHz tone detection for band switching.

FET Fixed Bias Generator Series

Part No.	No. FET's	Drain Voltage (V)	Drain Current (mA)	Supply Voltage Range (V)	Quiescent Current (mA)	V _{neg} (V)	Released
ZNBG3000	3	2.2	0 to 15	5 to 12	10	-3	Y
ZNBG3001	3	2.0	0 to 15	5 to 12	10	-3	Y
ZNBG3002	3	Prog	0 to 15	5 to 12	10	-3	Q4 98
ZNBG4000	4	2.2	0 to 15	5 to 12	15	-3	Y
ZNBG4001	4	2.0	0 to 15	5 to 12	10	-3	Y
ZNBG4002	4	Prog	0 to 15	5 to 12	10	-3	Q4 98
ZNBG6000	6	2.2	0 to 15	5 to 12	15	-3	Y
ZNBG6001	6	2.0	0 to 15	5 to 12	15	-3	Y
ZNBG6002	6	Prog	0 to 15	5 to 12	15	-3	Q4 98

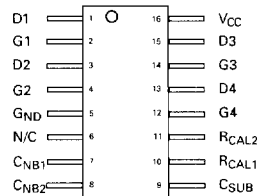
QSOP16 Package Suffix - Q16



Top View

Applies to
ZNBG3000
ZNBG3001 ONLY

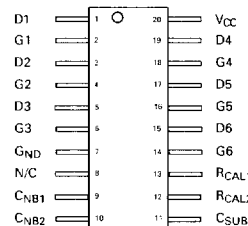
QSOP16 Package Suffix - Q16



Top View

Applies to
ZNBG4000
ZNBG4001 ONLY

QSOP20 Package Suffix - Q20



Top View

Applies to
ZNBG6000
ZNBG6001 ONLY

ZNBG3002
ZNBG4002
ZNBG6002
TBA

