

BGA2001,115
3k units from:
€ 0.24

BGA2003,115
3k units from:
€ 0.24

BGA6589,135
4k units from:
€ 0.72

BGA2003, BGA2001, BGA6589

2.4GHz Front End



Sacit Gunduz, Silica Turkey

NXP's smart RF Monolithic Microwave ICs (MMICs) automatically compensate for temperature and process variations. They dramatically reduce board space requirements, integrating transistors, resistors and capacitors into a single device.

BGA2001 and BGA2003 are Silicon Monolithic Microwave Integrated Circuit (MMIC) Low Noise Wideband Amplifiers consisting of an NPN double polysilicon

transistor with integrated biasing for low voltage applications in a plastic, 4-pin dual-emitter SOT343R package. BGA2003 has control pin to set the collector current of the RF transistor.

BGA6589 is Silicon Monolithic Microwave Integrated Circuit (MMIC) wideband medium power amplifier with internal matching circuit in a 4-pin SOT89 plastic low thermal resistance SMD package.

The BGAX89 series of medium power gain blocks are resistive feedback Darlington configured amplifiers. Resistive feedback provides large bandwidth with high accuracy.

Key Features

BGA2001, BGA2003

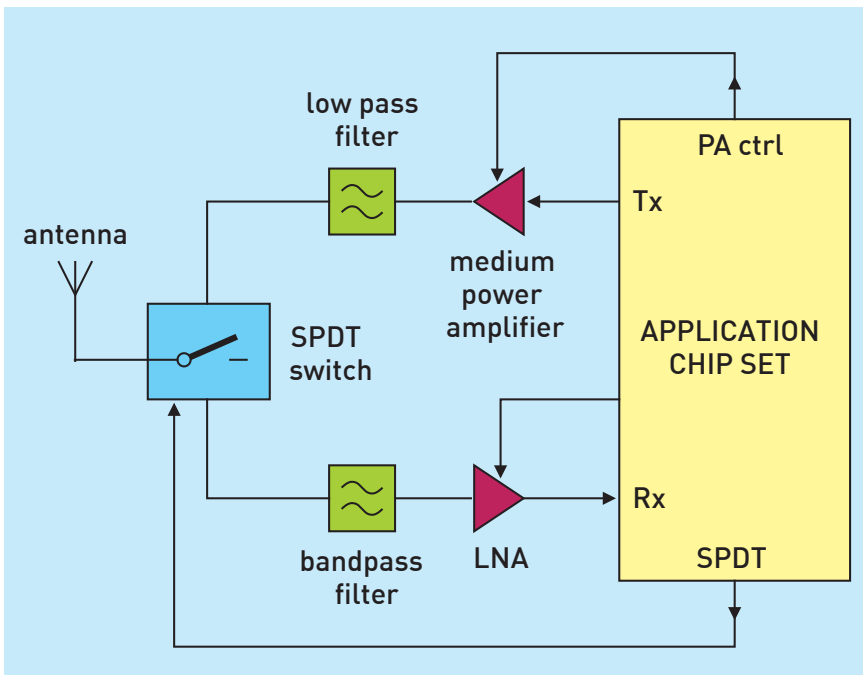
- Low current, low voltage
- Very high power gain
- Low noise figure
- Integrated temperature compensated biasing
- Supply and RF output pin combined

BGA6589

- Broadband 50Ω gain block
- 20dBm output power
- Single supply voltage needed

Key Applications

- RF front end
- Wideband applications, e.g. analog and digital cellular telephones, cordless telephones
- Low noise amplifiers
- Satellite television tuners
- High frequency oscillators
- Broadband medium power gain blocks
- Small signal high linearity amplifiers
- Drivers for CATV amplifier



Service available or already delivered T&R from Manufacturer.
Tapes are available, but not stocked at Avnet Logistics due to low demand.
Device supported by or programming equipment, but the socket for this package must be provided by customer.

P/N	Package	Programming	Taping & Reeling	Marking
BGA2001,115	SOT343R			
BGA2003,115	SOT343R			
BGA6589,135	SOT89			

AMPLIFIERS
CONNECTIVITY, COMMUNICATION & INTERFACE ICs
DATA CONVERTER ICs
DIGITAL SIGNAL PROCESSORS
DISCRETES
MEMORIES
MICRO-CONTROLLERS & -PROCESSORS
OPERATING SYSTEMS
OPTOELECTRONICS & DISPLAYS
POWER MANAGEMENT ICs
PROGRAMMABLE LOGIC DEVICES
TOOLS & SERVICES