



The Company

Product Areas

- » GSM, DCS, UMTS, TETRA Repeaters
- » Passive Mobile Network Components
- » Low Phase Noise RF and Microwave Synthesizers
- » Low Noise Microwave Amplifiers
- » Microwave Up / Down Converters
- » Microwave Subsystems for Radars
- » Microwave SLAR, SAR, Doppler Radar
- » Software Defined Radio (SDR) Subsystems
- » T/R Modules and Microwave Front-Ends
- » Microwave Adaptive Antennas
- » Phased Array Systems
- » Digital Signal Processing
- » Switching Matrices
- » Small UAVs
- » Digital Command Receivers
- » Telemetry Transmitters
- » Solid State Power Amplifiers
- » Satellite Uplink Transmitters
- » Satellite Video Receivers
- » Satellite Monitoring Systems
- » Digital Demultiplexers and Demodulators
- » Components and Subsystems for Aerospace and Space industry

Test Capabilities

- » EMC measurements in GTEM cell and anechoic chamber
- » Vibration and shock test by computer controlled shaker
- » Equipment park upto 40 GHz
- » Temperature and climate test

This brochure provides a general overview about our products and services but does not represent fully our overall capabilities. Since we have a talented and innovative R&D team, we are capable to make custom tailored designs and solutions based on your own specifications. If you need such solutions, please contact us at any time.

Certificates



Product Portfolio

Company Mission Statement

To develop and manufacture high quality, high performance, competitively priced components, subsystems and instruments for the telecom, defense and aerospace industry.

BHE Ltd.

Founded in 1991 for being an R&D company in the field of the microwave telecommunications. BHE employs highly skilled microwave experts who gained their experience in the industrial, military and space research groups at other companies, university or academic research sites. Many of them spent years in the USA, Germany and Japan as development engineers. The success of BHE in microwave development and manufacturing led soon to extend the activity.

Our company is equipped with state of the art CAD softwares for simulation and design of microwave circuits and mechanical components. Design and production verification are carried out by modern electronic test and measuring equipment. The sensitive, high reliability products are assembled in fully anti-static clean rooms. In our machine shop the manufacturing of components are made by skilled personnel on the most modern CNC milling machines. The environmental tests are supported by computer controlled test instruments in our vibration, EMC and climate test labs.

Products

Hundreds of different products represent our product portfolio. This number increases with 30 - 40 new products each year. This activity is supported by more than 300 years of accumulated engineering experience.



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General Products

Repeaters

- » UMTS Repeaters
- » GSM 1800 Repeaters
- » Dual Band Repeaters
- » GSM Repeaters
- » TETRA Repeaters

These Repeaters are intended for use in indoor and outdoor GSM, UMTS, DCS and TETRA systems. They are representing the most modern circuit theories and technologies. Using these repeaters is a cost effective solution to cover areas which cannot be covered economically by base stations. The installation is very easy and convenient. These modern repeaters are fully remotely controllable.

Passive Components

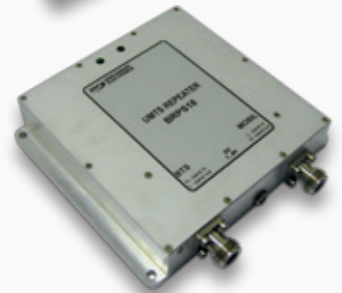
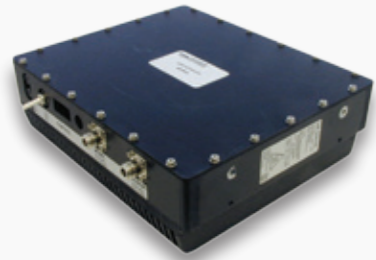
BHE offers a complete line of wide band passive network components like combiners, splitters, couplers, tappers and diplexers with very low dissipative loss. We can offer not only reactive splitters which have only one matched port and no isolation between the splitted ports but you can find properly matched low dissipative loss couplers and splitters which covers all the usual bands (GSM-DCS-UMTS).

- » Splitters, Couplers, Combiners
- » Filters, Diplexers, Triplexers
- » Attenuators, Terminations

Solid State Power Amplifiers

These High Power Amplifiers are intended for use mainly in telecommunication systems as power booster. However these HPAs can be used effectively in SatCom, Aerospace, EW, Radar and intermodulation test measurements applications as well. Their compact size and low power dissipation guarantee long, trouble-free operation.

- » 2025 – 2125 MHz 1 kW Amplifier
- » 2020 – 2120 MHz Redundant Power Amplifier
- » 50 W S-band Outdoor SATCOM SSPA



General Products

Low Noise Amplifiers

These Low Noise Amplifiers are intended for use in modern solid state communication equipments where high reliability microwave signal amplification, high dynamic range and steep skirt characteristics are important factors.

- » Low noise coaxial input amplifiers
- » Low noise waveguide input amplifiers
- » Narrow- and wideband low noise amplifiers

High Power Amplifiers

- » Narrow Band
- » Wide Band

These High Power Amplifiers are intended for use mainly in telecommunication systems as power boosters. However these HPAs can be used effectively in SatCom, Aerospace, EW, Radar and intermodulation test measurements applications as well.

Low Noise Frequency Synthesizers

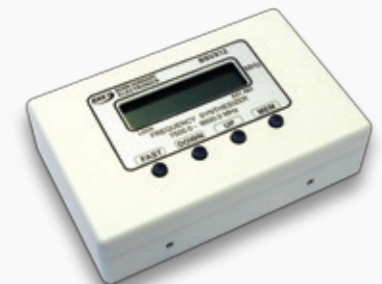
These families of synthesizers with frequency range up to 20 GHz are intended for use in professional applications where clean output signal, fast switching time, low spurious, compact size, easy handling and modest price are important factors. Widely used in satellite communications.

- » High resolution
- » Fast switching and very low noise
- » Multichannel and multioutput
- » Wideband or narrowband options
- » LCD display and PC controlled versions

Low Noise Microwave Oscillators

These oscillators are intended for use in signal sources which can be found in industrial, military and scientific equipments. Wideband tuning capabilities and low phase noise make them exceptionally suitable for use in local oscillators.

- » 5 – 13 GHz mechanically and voltage tuned DROs
- » 0.05 – 10 GHz low phase noise PLOs
- » 5 – 25 GHz low phase noise PLDROs
- » 10 MHz GPS frequency standard



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