

eWings design team
has more than
20 years expertise



RF &
Wireless
Solutions



Bright ideas make life easier

Defence & Radar



eWings s.r.l.

Via Boldrini 24 40121 • Bologna - Italy

Operating site 1

Via Quasimodo, 46 40013
Castelmaggiore (BO)

Operating site 2

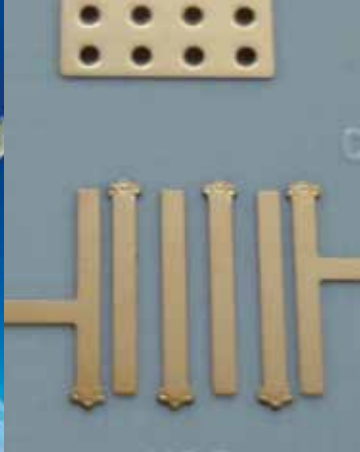
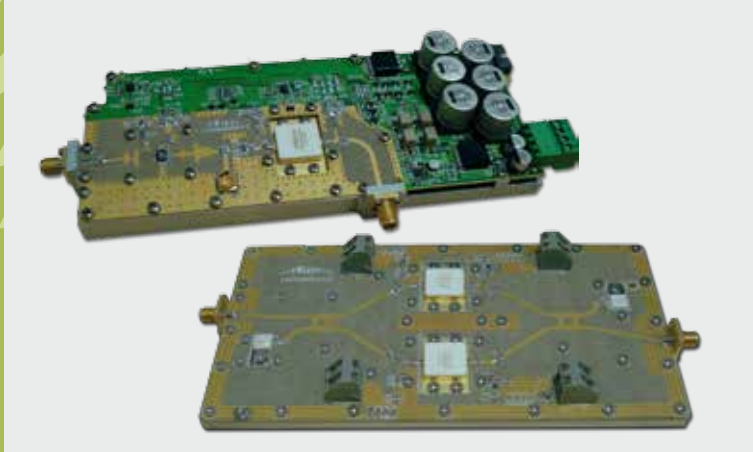
Via del Maccabreccia, 7-11 40012
Lippo di Calderara (BO)

Phone +39 051 6325637 or +39 051 6466162

Fax +39 051 6426706

info@ewings.it • www.ewings.it





eWings design team has more than 20 years expertise in the defense sector: the product portfolio starts from microwave transmitters and receivers to customized filters and duplexers and high power amplifiers.

eWings has the capability to follow the complete life cycle of a product from concept to design, development and production.

eWings in-house laboratory has measurements capability up to 50GHz to achieve complete product verification.

COMMUNICATIONS

- C-Band Tx/Rx flying modules for very long range high data rate communications
- 500W AC/DC Power Module for Tornado TV/TAB altitude and gun fire compliant
- UHF Down-converter of Tornado X-band Radar
- Galileo/GPS Multi-band Multi-constellation Front-end Receivers with low phase noise frequency agile Local Oscillators and high dynamic range. The modules are optimized against high power jammers and interferers
- IFF 1KWatt High power High selectivity frontend
- Obsolete part redesign and replacement

FILTERS

- L-band IFF filters with 1030MHz and 1090MHz duplexer with 15dB gain for airborne communications
- UHF and VHF digitally tuned RF filters for agile band-pass filtering used in military aircraft communication and professional radio equipments
- UHF and VHF Harmonic filter with selectable filter matrix (30-50MHz; 50-88MHz; 88-140MHz; 140-225MHz; 224- 400MHz; 400-512MHz) and 100Watt Continuous Wave input power
- 8 Channels Highly integrated digitally switchable filter. Coverage of 8 bandwidths from 30 to 512MHz with 40dB harmonic attenuation and 8Watt continuous wave input power
- RF&Microwave Custom band-pass filters (inter-digitated and Substrate Integrated Waveguide)

RADAR

- X-band frequency agile up/down converter with low phase noise Local Oscillators and high-power high efficiency Solid State transmitter. Tailored for maritime applications
- X-band multi-channel highly integrated up/down converter with BITE signal for continuous performance verification
- X-Band 200W Pulsed Solid State Power Amplifier with high efficiency and fast ON/ OFF switching to improve reliability and thermal behaviour
- X-Band 60W High efficiency Pulsed Solid State Power Amplifier with fast gate switching, continuous current and voltage monitoring and over-current protections

