

MMIC

Monolithic Microwave Integrated Circuit

Key Technologies

0.15µm PHEMT GaAs MMICs Products
Customized Millimeter Wave MMICs
High frequency up to 50GHz
Multi-Function Chips

Capabilities

Passive and Active 0.15µm PHEMT GaAs MMICs DC-50GHz
Passive components printed on Hard substrates
Multi Function Integrated Circuits
Multi - Layer Technology
In House On-Wafer (Probe Station) Testing
Multi Layer Buried Components

Advantages

In House MMIC development suit (simulators, analysis etc.)
Customized design
In House RF integration and testing capabilities
Experienced teams of engineers, technicians, assembles etc.

GaAs Products examples

Amplifiers
Switches
Mixers
Multipliers
DCAs
Attenuators
Equalizers
Phase Shifters
Multi Function Integrated Circuits - RF Core.

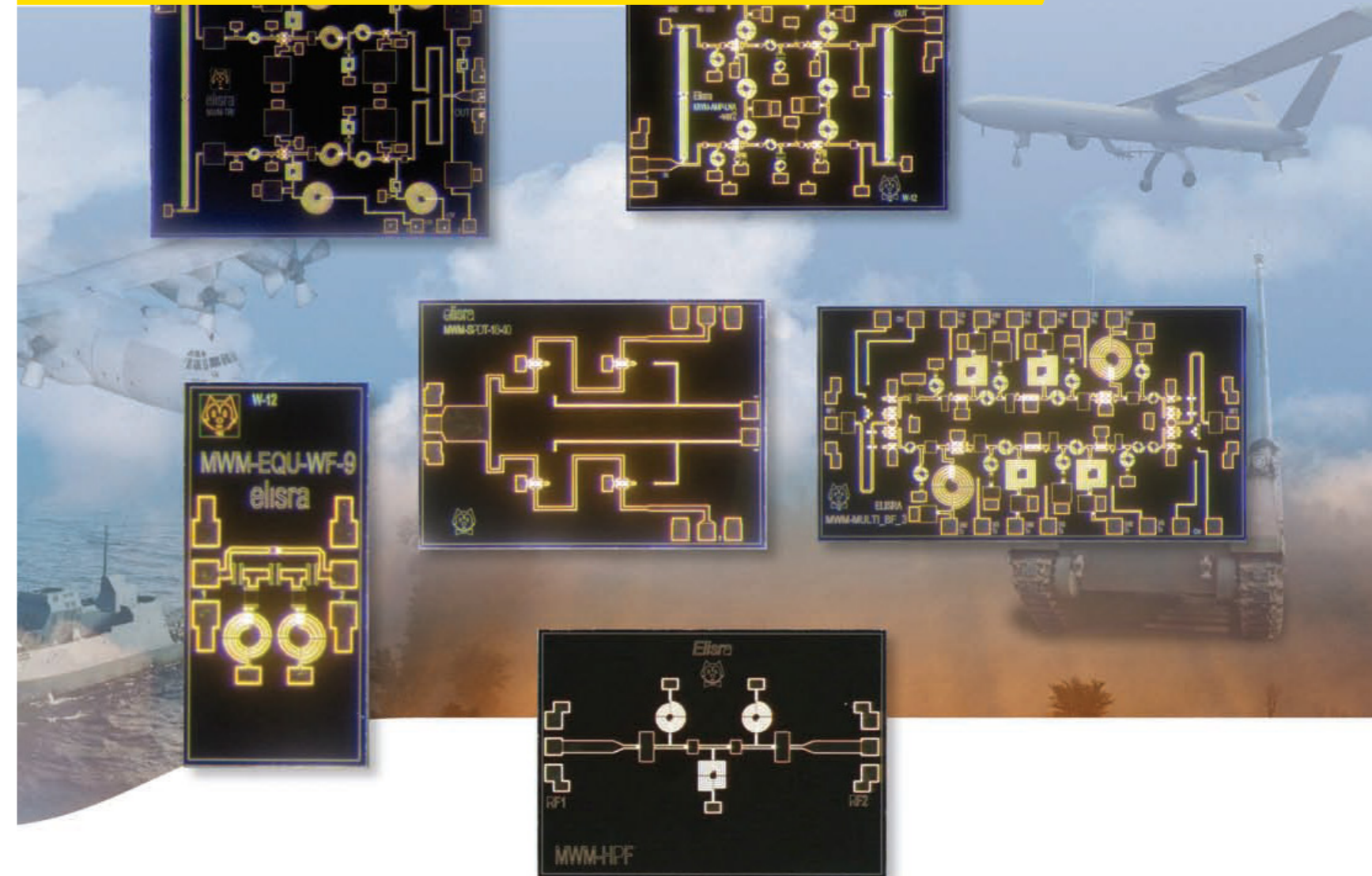


Elbit Systems EW and SIGINT - Elisra Ltd.
29 Hamerkava St., Holon 5885118, Israel
email: marketing@elisra.com
www.elbitsystems.com

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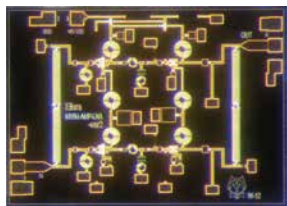




MMIC

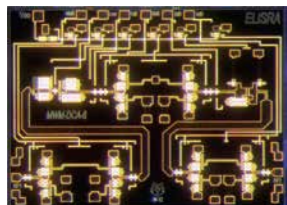
Monolithic Microwave Integrated Circuit

24-40GHz LNA



Gain 12dB
 Noise Figure 4dB
 Single Voltage Supply
 Dimensions 1.95 x 1.39 mm

DC-18GHz 6 Bit DCA single control

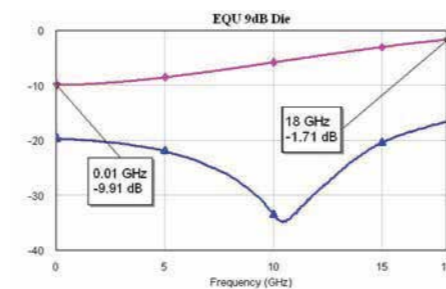


Frequency Range DC-18GHz
 Attenuation Range 0-31.5 dB
 Resolution 0.5dB
 Switching Speed <25ns
 Internal logic circuit allows single control/bit
 Dimensions 2.55 x 1.95 mm

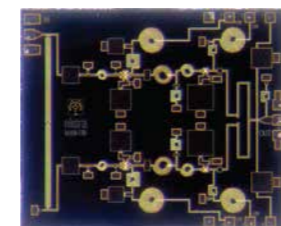
DC-18GHz 9dB Equalizer



Dimensions 1.39 x 0.65 mm

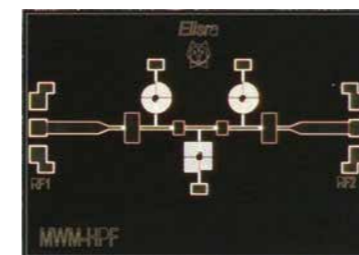


30-50GHz Output Frequency x3 Frequency Multiplier

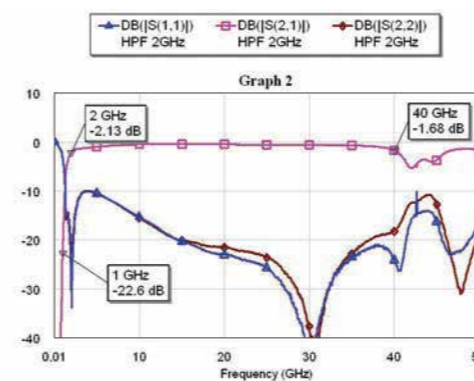


Input Frequency 14GHz
 Output Frequency 42GHz
 Input Power 0dBm
 Output Power 0dBm
 Fundamental Rejection 30dB
 2nd Harmonic Rejection 20dB
 Single Voltage Supply
 Dimensions 2.6 x 2.2 mm

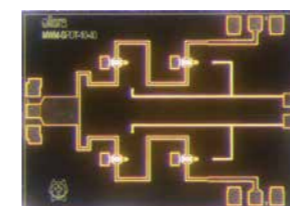
2GHz HPF



Ultra Wide-band Planar Filter
 Frequency Range 2-40GHz
 Dimensions 1.98 x 1.42 mm

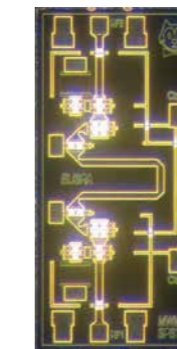


18-40GHz SPDT

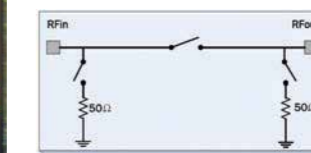


Insertion Loss 2.5dB
 Isolation 30dB
 Switching Speed 20ns
 Dimensions 1.98 x 1.42 mm

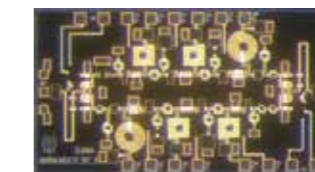
DC-18GHz Non Reflective SPST



Insertion Loss 2dB
 Isolation 45dB
 Switching Speed 20ns
 Dimensions 1.39 x 0.65 mm



Multi-function 6-18GHz T/R MMIC with build in Equalization



Tx Gain 30dB
 Rx Gain 15dB
 Gain Slope 4dB
 Output P1dB 15dBm
 Dimensions 2.569 x 1.39 mm

