

MMIC | MEMS | CERAMIC FILTER | LC FILTER | CAVITY FILTER | WAVE GUIDE | DIVIDER



YOUR THE MOST PROFESSIONAL PARTNER
IN RF COMPONENTS AND SYSTEM



www.rfmiso.com



Smile with you

MISOTECH

YOUR THE MOST PROFESSIONAL PARTNER
IN RF COMPONENTS AND SYSTEM



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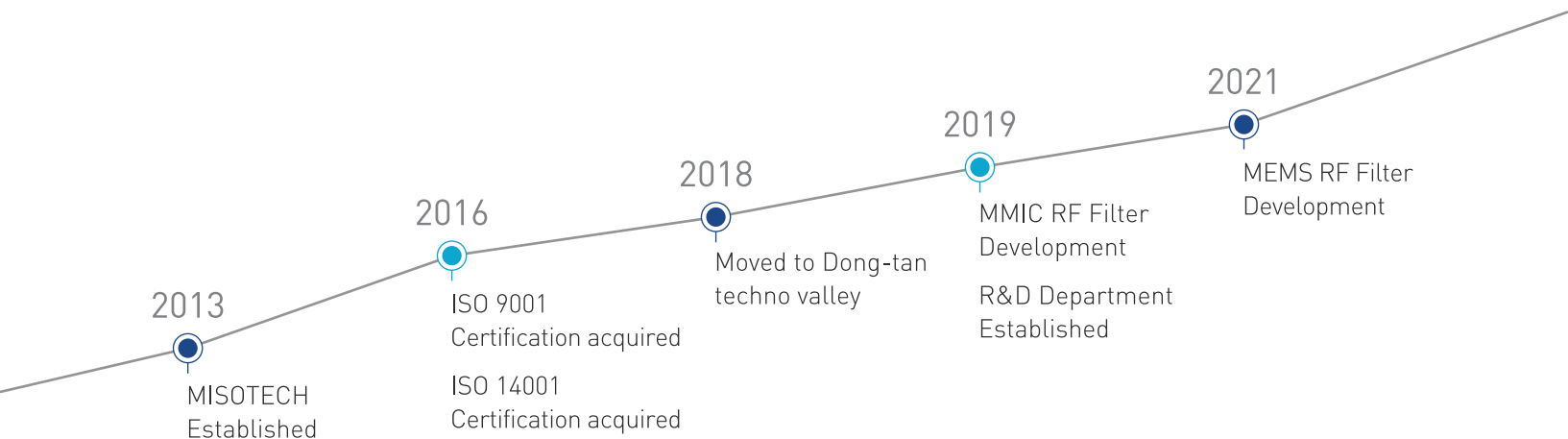


Who we are

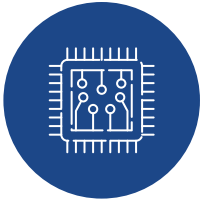
MISOTECH is a rising star in the defense market. Since 2013, We never stop improving our service & product quality for our customers who trust us. Thanks to that, We developed and launched many of MMIC devices & MEMS devices which brings innovative module size squeeze & higher reliability.

We overcame many of big challenges and felt happiness with our customers in the range of EW elint, commint & jammer, drone jammer, Radar system, RWR, and military radio system.

Our people are dedicated to solving complex challenges that need creative & innovative thinking. PLS come and join us to enjoy this field together.



What we do



Systems Engineering & Design

- Requirements Definition & Specification Development
- Analysis, Modeling & Simulation(Component & System Level)
- Hardware & Software Design, Development, Integration & Test



Product Development & Manufacturing

- RF, Microwave and Military
- Passive components , MMIC and MEMS



Consortium & Support service

- Front End / Matrix / Filter bank/ Phase Array Antenna
- Defense & Warfare Solutions

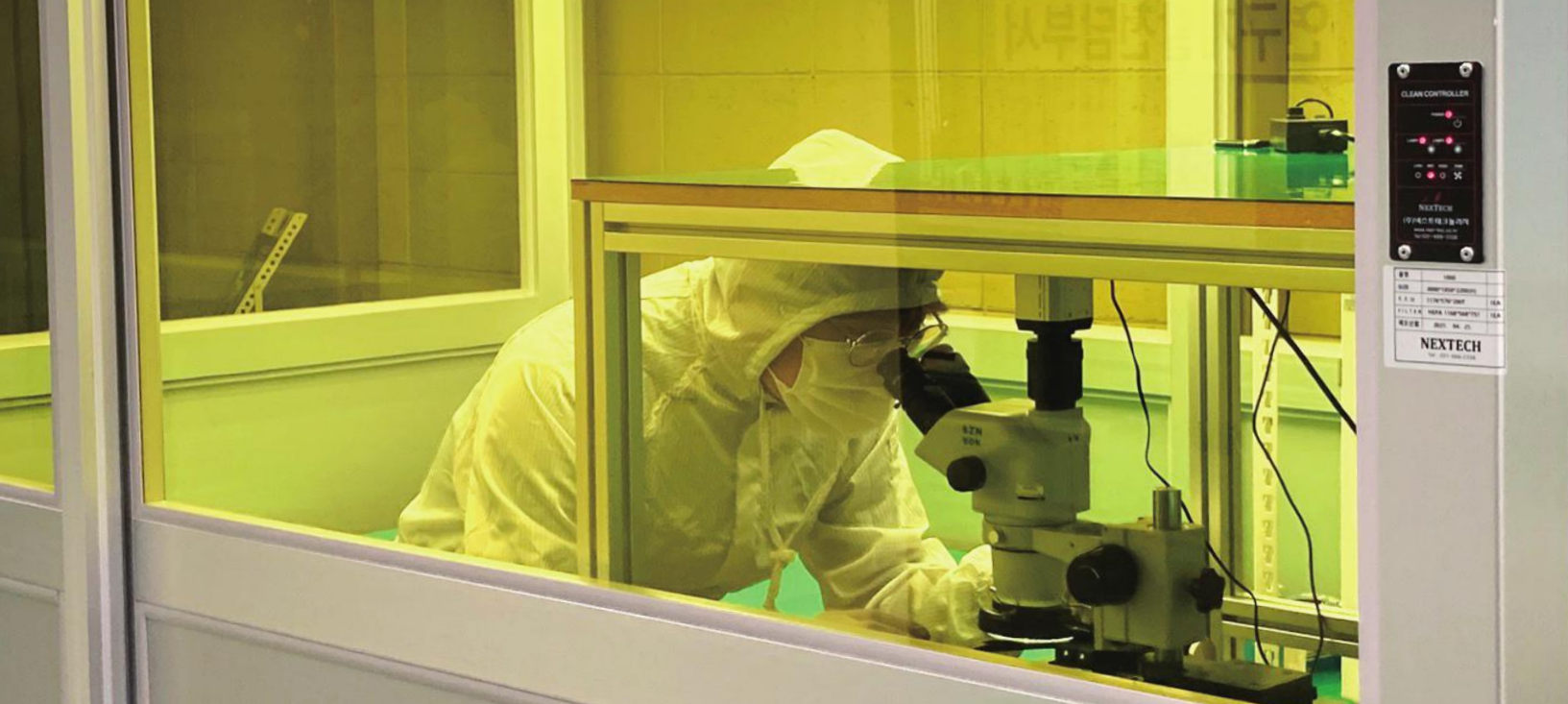


Engineering Capabilities

- Methodical System Engineering Approach to Design
- Broad Base of RF Microwave and Military System Experience
- In-House Ability to Design, Document, Analysis and RF Test

Certifications





Facilities

Clean booth 1000class

Environmental test room

Constant Temperature and Humidity Chamber[-55deg to 125deg.]

Thermal Shock Chamber [-55deg to 125deg.]

Altitude Chamber (-55deg to 150deg and up to 100Kf)

Salt spray and IPXX.

MIL-STD-810G Applied

Laboratory

Probe station on Anti-swing for On-Wafer test

Network Analyzer (up to 65GHz)

Logic Analyzer

Universal Radio Communication Tester

Broadcast Test System

Spectrum Analyzer

Signal Generator

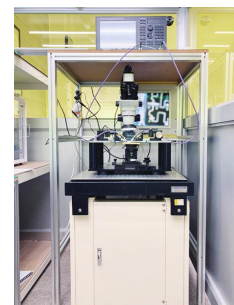
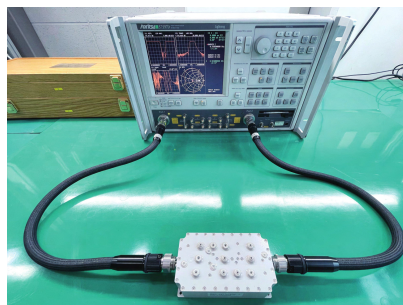
Power meter

DC Power Supply

Die Bonder (Epoxy & Eutectic)

Micro scope

19`` Power Rack (up to 200W)



Electronic Warfare Project Management



ELINT Electronic Intelligence

Front End Unit / Switch Matrix / Filter Bank

Design Technology for mmWave Broadband Receiver
Manufacture Technology for mmWave Broadband Receiver
Channel-to-channel Gain-matched Technology for mmWave band
Channel-to-channel Phase-matched Technology for mmWave band
Isolation Technology between CHs
Low Noise Figure Technology



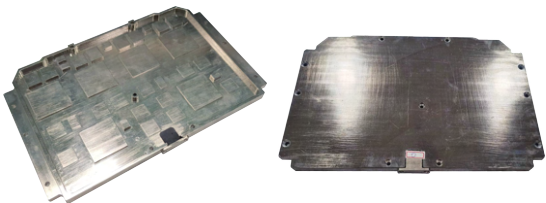
Multiport and Connectors for EW

Used for the convenience of fastening connectors between
FE and Matrix.
Special RF Connectors



Vapor Chamber

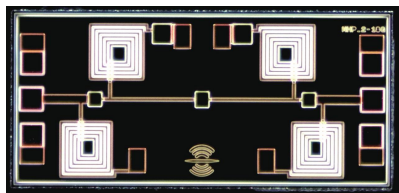
Used for cooling between CPU and FPGA
and operation method is divided
Into Analog and Digital.



Environmental Test, Demo Test and Off-set

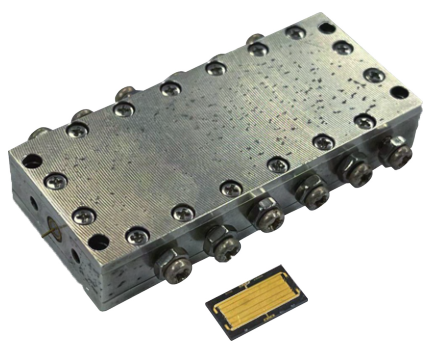
In order to meet the needs of our customers,
we provide all the desired services in various fields.





MMIC (Monolithic Microwave Integrated Circuit)

Applications	· Avionics · Military · Radio · Transmitters and receivers · Synthesizers
Features	· GaAs PD25-00, 100um · High frequency up to 50GHz · Standard MMICs of defense · Customized MMICs · RoHs Copmliant
Typical Performance Characteristics	· Storage Temperature : -65±150°C · Operating Temperature : -55±125°C · Power Range : +30dBm max



MEMS RF FILTER (Microelectromechanical Systems)

Applications	· Avionics · Military · Car radar · Transmitters and receivers · 5G and next generation
Features	· Precision MEMS process · High frequency up to 50GHz · Silicon substrate · Au Wire bonding , QFN Package · RoHs Compliant
Typical Performance Characteristics	· Storage Temperature : -55 _ +125Deg.C · Operating Temperature : -55 _ +85Deg.C · Power Range : +35dBm max



Ceramic Filter

Applications	· Cellular base station transceivers · Satellite transceivers · GPS and car navigation equipment · Land mobile radios · CATV · Modems · Wireless LANs · Military
Features	· High Q factor · Low insertion loss · Wide frequency range(200 MHz to 6GHz) · High frequency and mechanical stability · Notch filters available · Surface mount and thru-hole mount · 50 Ohm standard, 750hm impedance available · Custom design available · Available in tape and reel packing · Sealed packages available · Compliant to MIL % RoHs Specs
Typical Performance Characteristics	· Temperature Range : -55 to 85°C · Temperature Stability : (±5 ppm/°C)

Cavity Filter



Applications

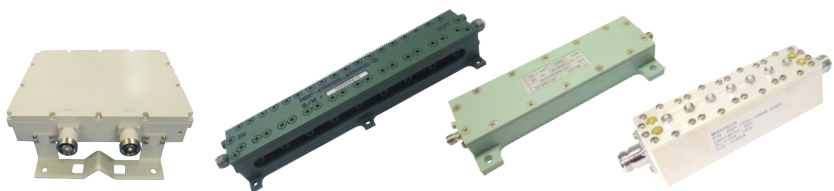
- Avionics
- Military
- Base stations
- Test instrumentation
- Communications

Features

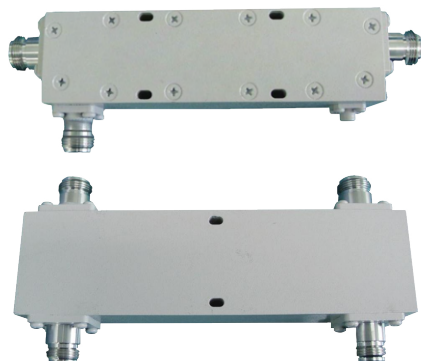
- Low loss
- Very high selectivity
- Wide range of bandwidth -0.5% to 70%
- High peak power
- Excellent temperature stability
- Low IMD designs available
- Compliant I Typical Performance

Typical Performance Characteristics

- Q Factor : up to 20000
- Temperature Range : - 55 to 85 °C
- Temperature Stability : as low as 1ppm
- Shock : 10G
- Vibration : 20G
- Humidity : 0 ~ 95%
- Power Range : 1 ~ 20 KW



Divider & Coupler



Applications

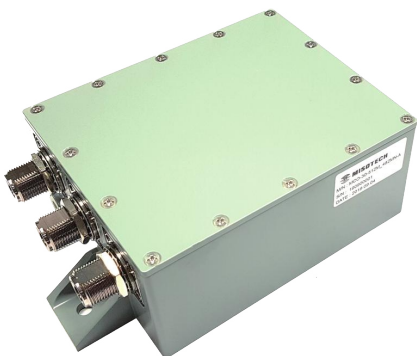
- Avionics
- Military
- Repeaters
- Transmit filters
- Satellite communications

Features

- Low Pim
- High power handling
- High power capacity
- Compliant to MIL % RoHs Specs

Typical Performance Characteristics

- Q Factor : up to 20000
- Temperature Range : - 55 to 85 °C
- Temperature Stability : as low as 1ppm
- Shock : 10G
- Vibration : 20G
- Humidity : 0 ~ 95%
- Power Range : 20W ~ 50 KW



LC Lumped

Applications

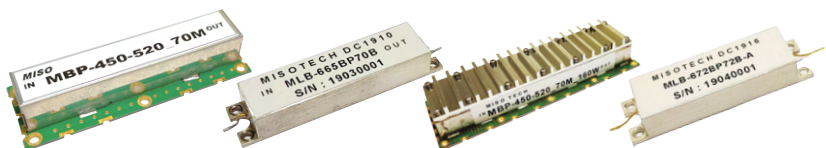
- Cellular base station transceivers
- Satellite transceivers
- GPS and car navigation equipment
- Land mobile radios
- CATV
- Modems
- Wireless LANs
- Military

Features

- Small size, low profile
- Leaded, surface mount, PC mount and connectorized
- Hermetically sealed package available
- Wide range of transfer functions
- 30 kHz to 20GHz
- Compliant to MIL % RoHs Specs

Typical Performance Characteristics

- Temperature Range : - 55 to 85 °C
- Temperature Stability : (± 5 ppm/°C)



Waveguide Filter

Applications

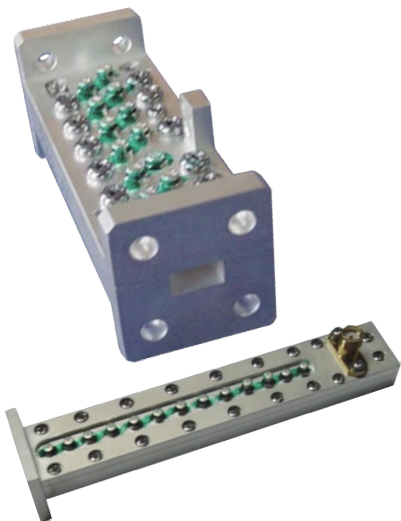
- Avionics
- Military
- Repeaters
- Point to Point
- Transmit filters
- Satellite communications

Features

- 0.1 to 20% bandwidth
- Extremely low loss
- High power handling
- High power capacity
- Compliant to MIL % RoHs Specs

Typical Performance Characteristics

- Q Factor : up to 20000
- Temperature Range : - 55 to 85 °C
- Temperature Stability : as low as 1ppm
- Shock : 10G
- Vibration : 20G
- Humidity : 0 ~ 95%
- Power Range : 20W ~ 50KW
- Packaging Options : Waveguide Flanges



Global Network



Our Partners

THALES

Elbit Systems™
EW and SIGINT - Elisra

IAI ELTA

I·N·D·U·S
TEQSITE

LEONARDO

भारत इलेक्ट्रॉनिक्स
BHARAT ELECTRONICS

UT 유텔
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Broadern
broadband wireless technology

AMP®
Astra Microwave Products Ltd.



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