

RF / MICROWAVE / mmWAVE SOLUTIONS

ENGINEERED FOR YOUR FREQUENCY.
DESIGNED FOR YOUR APPLICATION.

Filters • Components • Custom Solutions



WIDE FREQUENCY
COVERAGE
DC – 110 GHz



30+ YEARS
RF ENGINEERING
EXPERIENCE



CUSTOM
RF SOLUTIONS
From Design
to Production



RELIABLE QUALITY
LOW PIM
HIGH POWER
WATER RESISTANT



GROUP

RF / MICROWAVE & mmWAVE SOLUTIONS

MORE THAN A FILTER SUPPLIER. YOUR RF DESIGN PARTNER.

With over 30 years of RF engineering expertise, TEMWELL delivers high-performance filters and RF components from MHz to mmWave.

From concept to production, we provide reliable solutions that keep your systems connected and ahead.

30+

30+ YEARS RF EXPERIENCE

Decades of expertise in RF filter design and manufacturing.



CUSTOM RF SOLUTIONS

From specification review to RF design, simulation, prototype and production.



WIDE FREQUENCY COVERAGE

Comprehensive solution from DC to 110 GHz across all major bands.



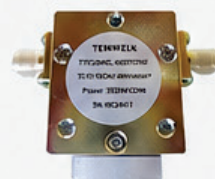
MULTIPLE TECHNOLOGIES

Cavity, Helical, Ceramic, SAW, BAW, LC, Waveguide and more.



MADE IN TAIWAN QUALITY ASSURED

In-house engineering and manufacturing with ISO 9001:2015 certified quality system.



FROM CONCEPT TO PRODUCTION

01

SPECIFICATION REVIEW

Understanding your requirements and application.



02

RF DESIGN & SIMULATION

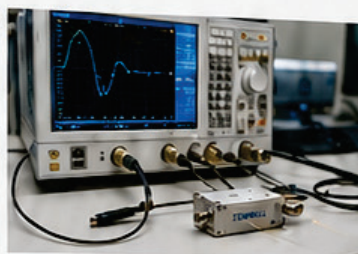
Advanced RF design and simulation for optimal performance.



03

PROTOTYPE & VALIDATION

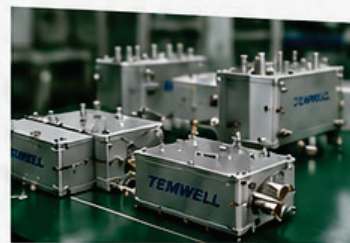
Rapid prototyping and rigorous testing to ensure reliability.



04

PRODUCTION & DELIVERY

Precision manufacturing and on-time delivery worldwide.



FREQUENCY COVERAGE



01 HELICAL FILTERS

High-Q performance with compact design

- Tunable / Band-Pass
- 42 MHz – 2.6 GHz
- 2 to 6 sections
- 3 dB Bandwidth: 2 MHz to 200 MHz
- Package: DIP / SMD / Connector
- Temperature: -35°C to +85°C
- Power Handling: 10 W+
- High “Q”, Flat Ripple
- Toko, Sumida & Murata replacement (Pin to Pin)
- Now SMD is available!



AVAILABLE CONFIGURATIONS

- Tunable and band-pass designs
- DIP, SMD and connectorized
- 2 to 6 sections
- 42 MHz to 2.6 GHz

02 CAVITY FILTERS

High power, low loss, superior selectivity

- Band-Pass, Band-Stop (Notch), High-Pass, Low-Pass
- DC to 70 GHz
- Connector & Needle (can be mounted like surface mounted type)
- Power Handling: 200 W+
- Low PIM & Water Resistant (IP66 / IP67)
- High “Q”, Low Loss
- Interdigital, Suspended Stripline, Comb & LC, Waveguide



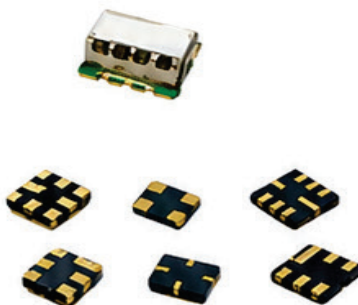
APPLICATION HIGHLIGHTS

- High-power RF systems
- Low-PIM infrastructure
- Water-resistant assemblies
- Custom filter integration

03 SMD FILTERS

Miniature size, high performance

- Ceramic / Dielectric / LC / SAW / BAW / Helical
- Band-Pass, Band-Stop (Notch), High-Pass, Low-Pass
- DC to 67 GHz
- Power Handling: 20 W+
- Toko & Murata replacement (455 kHz & 10.7 MHz)
- Single Pole Resonator
- BAW filter replacement < 3G – 8G >



TECHNOLOGY OPTIONS

- Ceramic and dielectric
- LC, crystal and SAW
- BAW and helical
- Custom SMD footprints
- DC to 67 GHz coverage



WIDE FREQUENCY
COVERAGE
DC – 70 GHz



HIGH POWER
HANDLING
10 W+ to 200 W+



LOW PIM &
WATER RESISTANT
IP66 / IP67



HIGH Q &
LOW LOSS
Superior Selectivity



MULTIPLE
PACKAGING OPTIONS
Connector / SMD / DIP



CUSTOM DESIGN
SOLUTIONS
Tailored to Your Needs

COMPLETE YOUR RF SIGNAL CHAIN

High Performance Components for Reliable RF Systems



DUPLEXERS & DIPLEXERS

- Single & Dual Band Pass
- 100 MHz to 18 GHz
- Power Handling 10 W+, 200 W+
- Low PIM & Water Resistant (IP66 / IP67)
- Custom designs available



COMBINERS & SPLITTERS

- 2-way to 32-way
- DC to 40 GHz
- Power Handling 200 W+
- Low PIM & Water Resistant (IP66 / IP67)
- DC-Block & Resistive DC-6 GHz option
- Connector, SMD, DIP options



ISOLATORS & CIRCULATORS

- Connector, Drop-in, SMD
- 10 MHz to 110 GHz
- Power Handling up to 5 kW (peak)
- Low PIM & Water Resistant (IP66 / IP67)
- High Isolation & Reliability



COUPLERS

- Directional & Hybrid
- Connector Type
- 500 MHz to 18 GHz
- Power Handling 10 W+, 200 W+
- Low PIM & Water Resistant (IP66 / IP67)



RF AMPLIFIERS & REPEATERS

- RF Power Amplifiers
- Wideband & Custom
- High Linear Performance
- Built for Harsh Environment
- DC to 110 GHz
- Power Handling: 1000 W+



ATTENUATORS & TERMINATIONS

- Attenuator: Fixed & Step
- DC to 4 GHz
- Power Handling 100 W+
- Low PIM
- Termination (50 Ohm)
- High Power Options



RF CABLES & ACCESSORIES

- RF Cables (General & Low PIM)
- Adapters & Connectors
- DC Blocks
- Mounting Kits & Accessories



Custom Solutions

Tailored to Your Requirements

We work closely with you from concept to production to deliver the right solution for your application.

Scan QR Code

to learn more about our capabilities

RF SIGNAL CHAIN EXAMPLE



ANTENNA



FILTER



DUPLEXER /
DIPLEXER



COUPLER



ISOLATOR /
CIRCULATOR



AMPLIFIER



ATTENUATOR /
TERMINATION



RF SYSTEM



WIDE FREQUENCY
COVERAGE
DC - 110 GHz



HIGH POWER
HANDLING
10 W+ to 5 kW (peak)



LOW PIM &
WATER RESISTANT
IP66 / IP67



RELIABLE QUALITY
BUILT TO LAST



ENGINEERED
IN TAIWAN

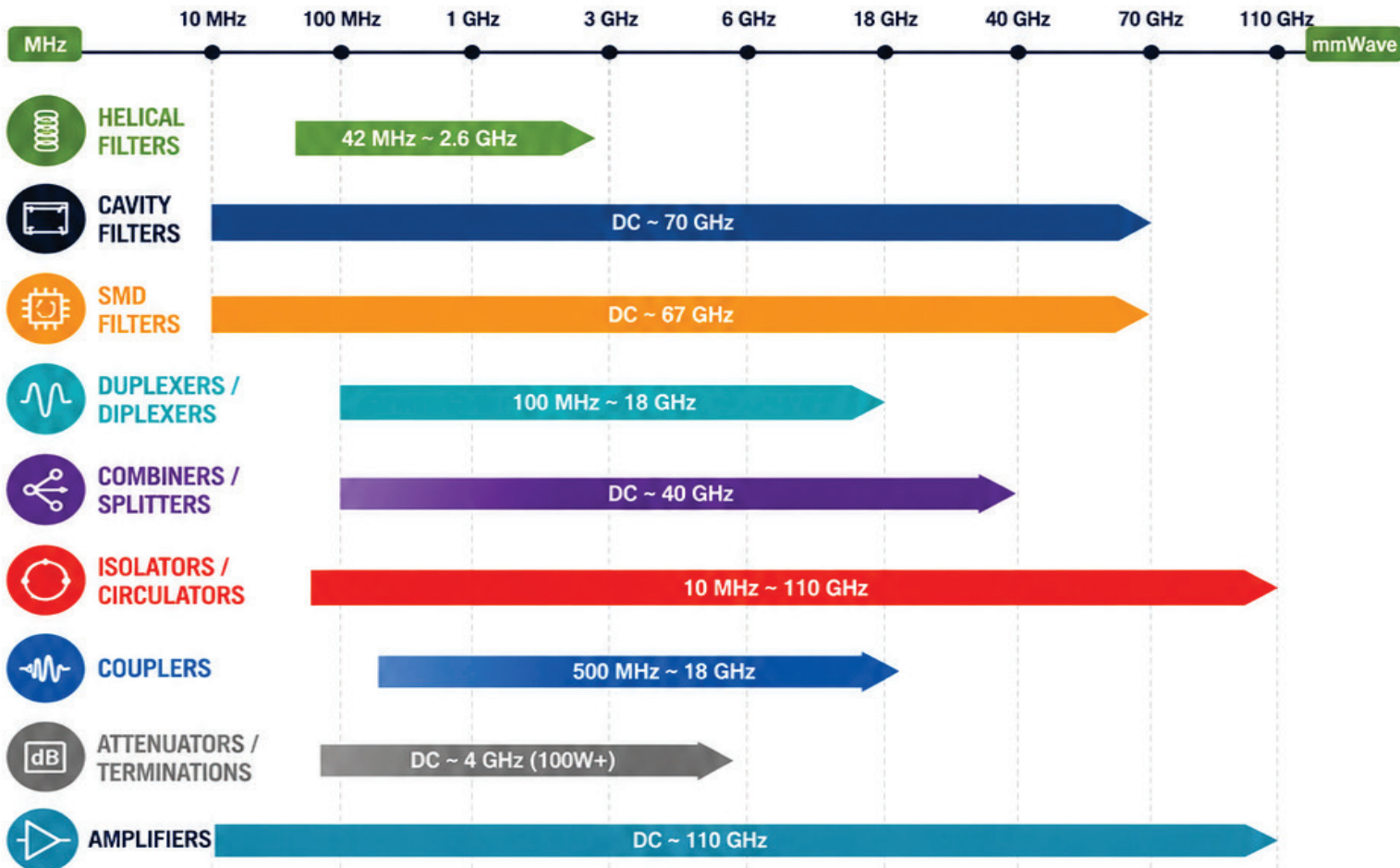


GLOBAL SUPPORT
WORLDWIDE

ONE RF PARTNER. MULTIPLE TECHNOLOGIES.

Broad frequency coverage and advanced technologies to meet your RF design needs.

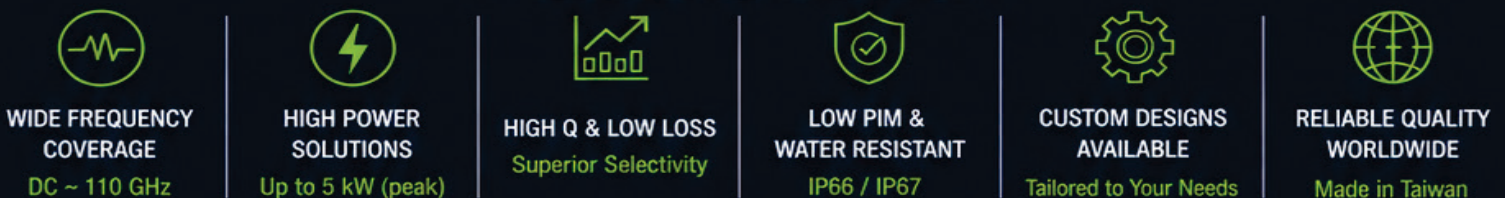
FREQUENCY COVERAGE MAP



ADVANCED FILTERING TECHNOLOGIES



ENGINEERED FOR PERFORMANCE





GROUP

RF / MICROWAVE & mmWAVE SOLUTIONS

GLOBAL PARTNERS. LOCAL SUPPORT.

Trusted by customers worldwide.
Supported by a global network
of reliable partners.

OUR GLOBAL DISTRIBUTORS



For a complete distributor list, please visit
www.temwell.com

TEMWELL GROUP

TEMWELL Group is a leading provider of RF / Microwave & mmWave solutions, specializing in the design and manufacturing of high-performance filters and RF components.

With over 30 years of engineering experience, we deliver reliable products and customized solutions for a wide range of applications including Aerospace, Satellite, 5G Communications, Radar, Defense, Industrial, Automotive, and Test & Measurement.

Backed by a strong engineering team, advanced manufacturing capabilities, and a stable supply chain, we are committed to providing the right solution with superior quality and on-time delivery.

Your Best RF / Microwave & mmWave Source.



HEAD OFFICE - TAIPEI



PRODUCTION SITE - I-LAN



SINCE 1994

R&D CENTER - TAIPEI

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CERTIFIED QUALITY SYSTEM



ISO 9001:2015



RoHS Compliant



REACH Compliant

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TAIWAN

YOUR RELIABLE
RF PARTNER



RF / MICROWAVE & mmWAVE SOLUTIONS

ENGINEERED TO PERFORM. BUILT TO LAST.

Advanced design and manufacturing
delivering performance you can rely on.

OUR CORE CAPABILITIES



CUSTOM DESIGN & ENGINEERING

Tailored RF solutions designed to meet your unique specifications and performance requirements.



SIMULATION & ANALYSIS

Advanced EM simulation and analysis to optimize design, performance, and reliability before production.



PRECISION MANUFACTURING

In-house manufacturing with strict process control to ensure high quality, consistency, and short lead times.



TESTING & VALIDATION

Comprehensive testing and validation to ensure products meet the highest industry standards.



QUALITY & RELIABILITY

ISO 9001 certified quality management system ensuring reliable products you can trust.



GLOBAL SUPPORT & SERVICE

Responsive customer support and after-sales service from design stage through product life cycle.

KEY FIGURES



30+

YEARS
OF EXPERIENCE



1000+

CUSTOMERS
WORLDWIDE



10000+

PRODUCT
SOLUTIONS



DC – 110 GHz

WIDE FREQUENCY
COVERAGE



10W+ to 5kW

HIGH POWER
HANDLING



IP66 / IP67

LOW PIM &
WATER RESISTANT

PROVEN SOLUTIONS ACROSS INDUSTRIES



SATELLITE COMMUNICATIONS

High performance RF filters and components for satellite ground systems and payloads.



5G & WIRELESS NETWORKS

Reliable solutions for base stations, repeaters, and wireless infrastructure.



RADAR & DEFENSE

Engineered for mission-critical radar, EW, and defense communication systems.



AEROSPACE & AVIATION

Lightweight, high reliability components for aerospace and avionics applications.



INDUSTRIAL & INSTRUMENTATION

Robust RF components for industrial systems, sensors, and test equipment.



TEST & MEASUREMENT

High precision RF components for test labs and measurement applications.

QUALITY ASSURANCE PROCESS



RAW MATERIAL INSPECTION

Strict incoming material inspection to ensure quality at the source.



IN-PROCESS CONTROL

Process monitoring throughout production to maintain high consistency.



FINAL INSPECTION & TESTING

100% electrical and visual inspection with full performance testing.



PACKAGING & PROTECTION

Careful packaging to protect products during storage and transportation.



ON-TIME DELIVERY

Reliable logistics and global shipping to ensure timely delivery worldwide.



CONTINUOUS IMPROVEMENT

We continuously improve to deliver better performance and value.

**YOUR RF CHALLENGE.
OUR PASSION.**

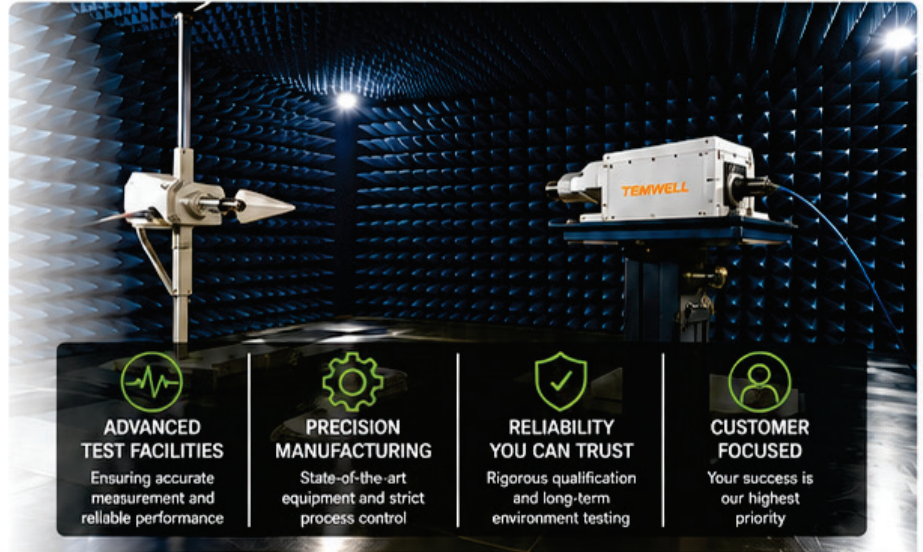
Partner with TEMWELL for innovative, reliable, and high performance RF solutions that drive your success.



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WHY TEMWELL?

- ✓ **TAIWAN EXCELLENCE**
Proudly designed and manufactured in Taiwan with strict quality control.
- ✓ **DECADES OF EXPERIENCE**
Over 30 years of RF expertise and thousands of successful projects worldwide.
- ✓ **HIGH PERFORMANCE**
Products built for demanding applications with excellent electrical performance and reliability.
- ✓ **FLEXIBLE & RESPONSIVE**
Low to high volume production with short lead times and responsive customer service.
- ✓ **TRUSTED PARTNER**
Long-term partnerships with customers across multiple industries and regions.



ADVANCED TEST FACILITIES
Ensuring accurate measurement and reliable performance

PRECISION MANUFACTURING
State-of-the-art equipment and strict process control

RELIABILITY YOU CAN TRUST
Rigorous qualification and long-term environment testing

CUSTOMER FOCUSED
Your success is our highest priority

FLEXIBLE SOLUTIONS TO FIT YOUR NEEDS



VARIOUS PACKAGES

Connectorized, SMD, Coaxial, Die-cast, Flange, and more.



WIDE FREQUENCY RANGE

From DC to 110 GHz covering a broad range of RF & microwave bands.



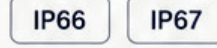
POWER HANDLING OPTIONS

From low power to high power up to 5 kW (peak) solutions.



ENVIRONMENTAL RELIABILITY

Designed to operate in harsh environments with excellent durability.



LOW TO HIGH VOLUME

Prototypes, small batches and mass production – we support your growth.



STANDARD PRODUCTS & CUSTOM SOLUTIONS

FILTERS



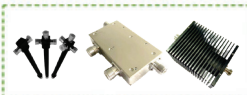
- Cavity Filters
- Helical Filters
- SMD Filters (Ceramic, SAW, BAW / FBAR, DR)
- Low Pass / High Pass
- Band Pass / Band Stop
- Notch Filters

MULTIPLEXERS



- Diplexers / Duplexers
- Triplexers
- Multiplexers
- Custom Designed Solutions

PASSIVE COMPONENTS



- Power Dividers / Splitters
- Couplers (Directional, Hybrid)
- Attenuators
- Terminations
- DC Blocks

ISOLATORS & CIRCULATORS



- Isolators
- Circulators
- Drop-in / Coaxial / SMD
- High Isolation & Reliability

AMPLIFIERS



- Low Noise Amplifiers (LNA)
- Power Amplifiers (PA)
- Wideband & Custom
- Module & Subsystem Solutions



CUSTOM SOLUTIONS – From Concept to Production

We work closely with you to design and deliver the right solution for your unique application.



REQUIREMENTS



DESIGN



PROTOTYPE



TEST & VALIDATE



PRODUCTION

HOW TO ORDER

- 1 INQUIRE**
Contact us with your requirements and application details.
- 2 QUOTE**
We will provide a tailored solution and quotation.
- 3 CONFIRM**
Review and confirm the order details and lead time.
- 4 PRODUCE & TEST**
Precision manufacturing and comprehensive testing.
- 5 DELIVER**
On-time delivery with reliable global logistics.

**LET'S BUILD YOUR
NEXT RF SOLUTION.**

We are ready to support your success.



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