

## DMCRF: Pioneering Innovation in RF Absorbers and RF Chambers



### RF ABSORBERS

#### BROADBAND HIGH-PERFORMANCE RF AND MICROWAVE PYRAMIDAL FOAM ABSORBER

DMC series offers premium quality Broadband high-performance RF and Microwave Pyramidal Foam absorber with heavy carbon-impregnated low-density Polyurethane foam to give better attenuation and performance.

- ✓ FREQUENCY RANGE 80MHZ TO 100GHZ
- ✓ TYPICAL REFLECTIVITY AS HIGH AS -50DB
- ✓ ROHS COMPLIANT
- ✓ CONTINUOUS WORKING TEMPERATURE UP-TO 90°C
- ✓ ZERO CARBON DUST



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[www.dmcrf.com](http://www.dmcrf.com)

**DMCRF** is your premier destination for innovative **RF absorbers and RF Chambers**—engineered to deliver uncompromising performance in electromagnetic compatibility (EMC) testing and RF shielding applications. At <https://www.dmcrf.com/>, we understand that every decibel of stray signal matters, and our solutions are meticulously designed to tame reflections, suppress unwanted interference, and provide a controlled testing environment for your latest wireless devices.

#### Why RF Absorbers Matter

RF absorbers are the unsung heroes of any EMC lab. By converting incident electromagnetic energy into heat, they dramatically reduce reflections and standing waves inside RF chambers, ensuring accurate, repeatable measurements. Whether you're validating compliance with stringent industry standards or optimizing antenna performance, the quality of your absorber directly impacts the reliability of your results. DMCRF's range of absorbers—from pyramidal ferrite tiles to broadband foam panels—offers high absorption efficiency across frequencies from 30 MHz to 40 GHz, giving you the flexibility to tackle everything from automotive radar to 5G device certification.

#### The Role of RF Chambers in Testing

An RF Chamber is more than just an enclosure; it's a turnkey solution for isolating devices from external electromagnetic noise and providing a consistent internal environment. Our chambers integrate RF-tight doors, low-loss cable feedthroughs, and interior absorber linings to create a "quiet zone" where your equipment under test (EUT) can be evaluated without ambient interference. Whether you need a compact benchtop chamber for R&D or a full-size walk-in facility for large-scale

testing, DMCRF delivers turnkey installations tailored to your space, budget, and regulatory requirements.

### **Key Features of DMCRF Solutions**

**Broadband Performance:** High absorption across a wide frequency range ensures a single solution can serve multiple test setups.

**Modular Design:** Easy-to-install panels and waveguide ports allow for scalable, upgradeable test systems.

**Thermal & Structural Stability:** Materials selected for consistent performance over time and under varying environmental conditions.

**Custom Configurations:** From angled absorber walls for mode suppression to bespoke chamber sizes—your specification is our blueprint.

### **Applications Across Industries**

From automotive radar validation and aerospace avionics testing to telecommunications device certification and military-grade EMI/EMC assessments, DMCRF's RF absorbers and RF Chambers support a broad array of use cases:

**Automotive & Mobility:** Ensure radar, LIDAR, and V2X systems meet safety and performance benchmarks.

**Wireless Communications:** Validate 5G, LTE, Wi-Fi, and IoT devices in a repeatable, interference-free environment.

**Aerospace & Defense:** Conduct precision testing for avionics, satellite transceivers, and secure communications gear.

**Medical Devices:** Achieve compliance with IEC standards for life-critical instruments.

### **Partner with DMCRF for Reliable EMC Testing**

Choosing the right **RF absorber and chamber** partner means more than just purchasing hardware—it's about gaining a trusted collaborator in your product development cycle. **DMCRF's** engineering team provides comprehensive support, from site surveys and chamber siting to turnkey installation and on-site performance verification. When you need consistent, high-fidelity RF testing, turn to the experts at <https://www.dmcrf.com/> and experience the difference that precision-engineered absorbers and chambers can make in your lab.

### **Ready to elevate your EMC testing capabilities?**

Reach out to DMCRF for a personalized consultation, and let us help you design a shielding and absorber strategy that keeps you ahead of regulatory demands and technological change. Your next breakthrough in RF performance starts here.

**VISIT US:** <https://www.dmcrf.com/rf-and-microwave-absorbers/>

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