

# CUMING MICROWAVE

## C-RAM LPJ

RoHS  
Compliant

### TECHNICAL BULLETIN 320-4

#### FLEXIBLE JAUMANN ABSORBERS

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C-RAM LPJ is a series of lightweight, flexible, weatherproof radar absorbers, which can be used indoors, outdoors, or wherever the material may be in contact with water, oil, or other liquids. C-RAM LPJ is made of alternating layers of closed-cell polyethylene foam and resistive layers. It is based on the Jaumann principle of operation. C-RAM LPJ is designed to provide typically 18 dB of reflectivity reduction in a frequency range dependant on grade.

#### APPLICATIONS

The radar absorber is useful for reducing reflections associated with radar ranges, antennas, aircraft, and naval vessels. Its easy-to-clean surfaces and non-dusting behavior make it suitable for cleanroom applications.

The standard size of C-RAM LPJ is 24 x 24 in. Standard thicknesses are noted in the chart below. Other thicknesses, shapes, and sizes are available on a custom order basis. It can be easily cut to special size or shape, and the edges do not require resealing. Sheets are bonded together or to a reflecting surface with a contact adhesive.

#### TYPICAL PROPERTIES

Color: White  
Size: 24" X 24" standard  
Service Temp.: -40 to +180 °F (LPJ)  
-40 to +300 °F (RCJ)

<u>Grade</u>	<u>Weight/ft<sup>2</sup></u>	<u>Thickness</u>
LPJ-373	120 g	0.45 in.
LPJ-374	210 g	0.85 in.
LPJ-375	340 g	0.95 in.

#### METHOD OF APPLICATION

For best performance, C-RAM LPJ must be mounted with its back face in close contact with a metallic reflecting surface. The back faces of C-RAM LPJ are identified by markings designating its type and grade; the front face is blank and colored white. A special grade, designated C-RAM LPJ/M is available with an integral metal foil backing.

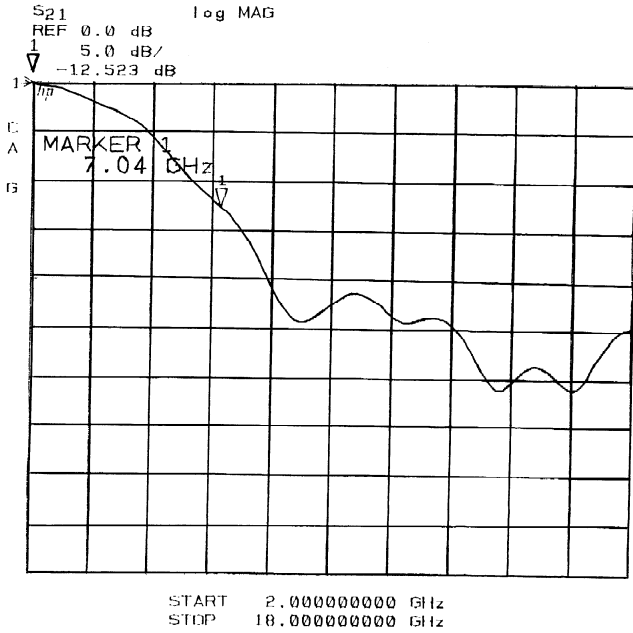
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# ELECTRICAL PERFORMANCE

<u>Grade</u>	<u>Frequency</u>
LPJ -373	8-18 GHz
LPJ -374	6-12 GHz
LPJ -375	2.5-8 GHz

## Typical Reflectivity of C-RAM LPJ-373:



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