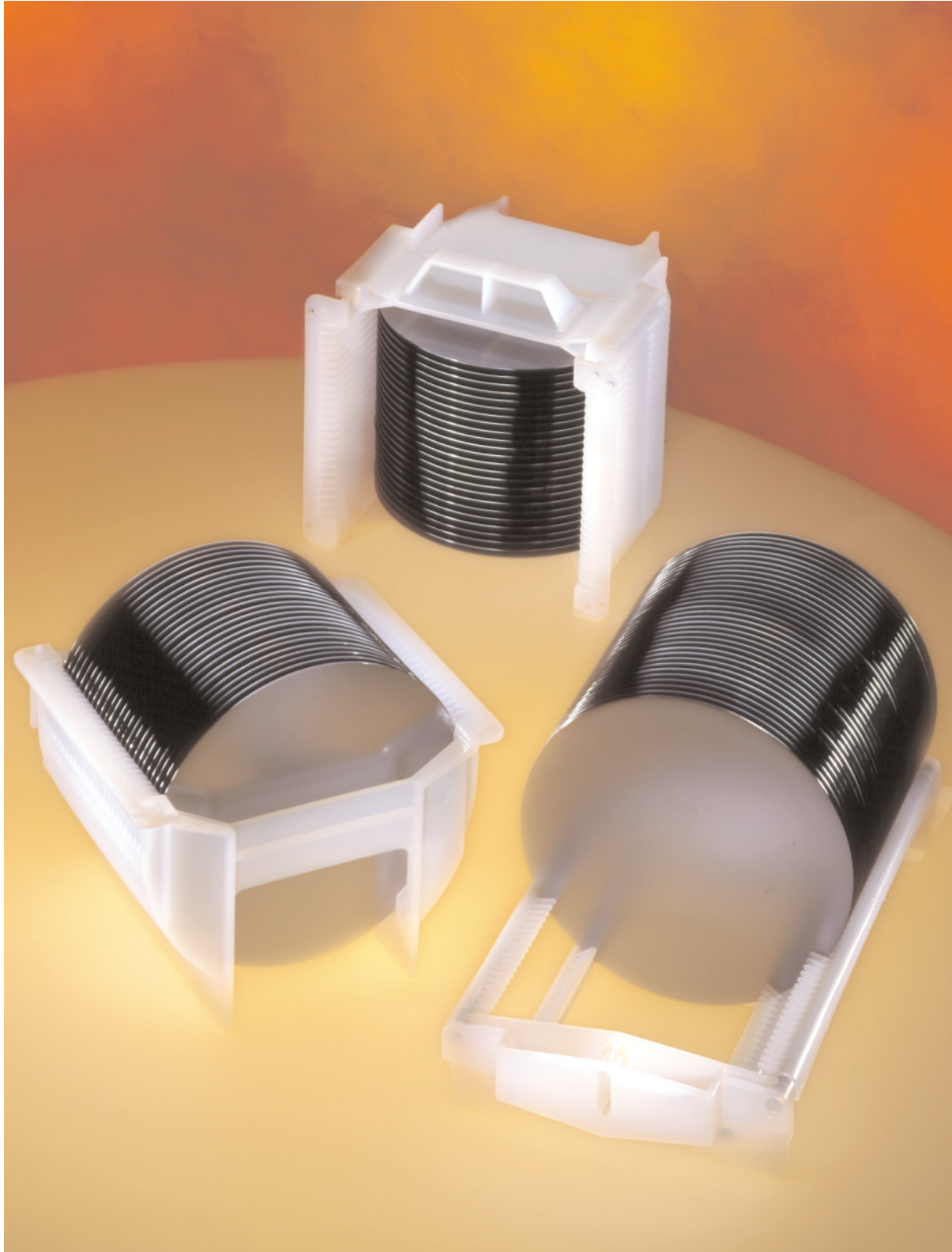




**200 MM PROCESS
WAFER CARRIERS**

Traditional molded PFA process wafer carriers and modular construction PFA process enhancement wafer carriers for wet chemical processing applications

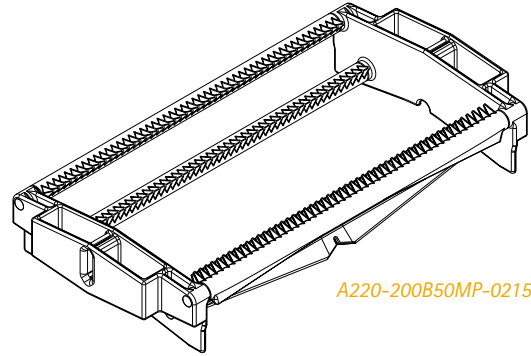


The 200 mm Process Wafer Carrier is a component of Silicon Delivery™ Systems and Services – Entegris’ unique materials integrity management solution to cost-effectively manage silicon from production to consumption. This offering brings together wafer and device handling systems and services into a customized, coordinated package that works for you.

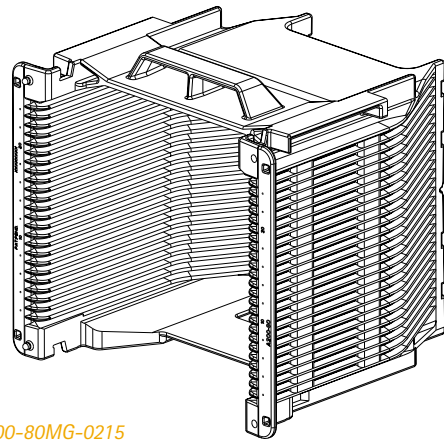
Process Enhancement Wafer Carriers

General Specifications

- Open flow carrier allows solutions to pass through evenly and quickly
- One-half the volume and mass of traditional process carriers
- One-fourth the surface area of traditional process carriers
- Modular construction includes reinforcement rods for added rigidity and strength
- Lift points on carrier ends for automated handling
- V-notch locators on carrier ends and rails for location on equipment
- Chemical resistant PFA material wetted surfaces
- Wafer capacity: 50
- Pocket spacing: 6.4 mm (0.25")



A220-200B50MP-0215

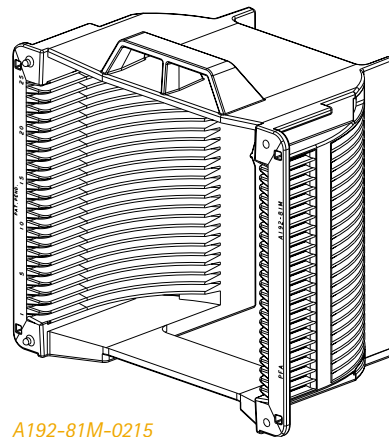


A200-80MG-0215

Traditional Process Wafer Carriers

General Specifications

- Open side walls allow solutions to pass through evenly and quickly
- Low and high profile
- “H” bar for equipment interface
- Locating track notches at the center of the thirteenth pocket
- Pins and holes on the top rail (unless noted)
- Chemical resistant PFA material
- Wafer capacity: 25, 26 or 50
- D1 dimension: 25.4 mm (1.00")
- Pocket spacing: A192-82M: 3.2 mm (0.13")
All others: 6.4 mm (0.25")
- Pocket flat: 1.7 mm (0.07")



A192-81M-0215

Configurations

Process Enhancement Wafer Carriers

Part Number	Capacity	Automation Features	Compatible Boxes	Compatible Handles	Material	Notes
A220-200B50MP-0215	50	Lift points and V-notch locators on ends, V-notch locators on rails	None	None	Natural PFA	
A220-200B50P-0215	50	Lift points and V-notch locators on ends, V-notch locators on rails	None	None	Natural PFA	Rotated rail – contact Entegris

Traditional Process Wafer Carriers

Part Number	Capacity	End Wall Configuration	"H" bar End Flanges	Compatible Boxes	Compatible Handles	Material	Notes
A192-80M-0215	25	Handle ¹ , flanges ⁴	No	E99, E210, HA200	A057-2, A192-80-04	Natural PFA	High profile
A192-81M-0215	25	Handle ¹ , flanges ⁴	No	E99, E210, HA200	A057-1	Natural PFA	Low profile
A192-82M-0215	50	Handle ² , flanges ⁴	No	E99, E210, HA200	Contact Entegris	Natural PFA	Low profile
A200-80MD-0215	25	Flanges ³ , inboard flanges	No	E210	Contact Entegris	Natural PFA	High profile
A200-80MG-0215	25	Handle ² , flanges ⁵	No	E210	A057-2	Natural PFA	High profile
A200-81M-0215	26	Flanges ⁴	No	E210	Contact Entegris	Natural PFA	High profile, no pins and holes

¹ Standard size, high position ² Large size, high position ³ Wide outboard ⁴ Standard outboard ⁵ C-style outboard

Identification Options

Entegris offers a variety of identification options for carrier identification, including:

- Laser marking
- Ceramic encapsulated or PFA laminated PTFE bar coding
- Radio frequency tags
- Encapsulated alphanumeric tags

Contact Entegris to determine a suitable identification method for your application.

Handles

Entegris offers end-load and slingshot style handles molded of natural PFA material for use with traditional process wafer carriers.

End-load Style

To use, slip the handle down through the handle slot on the end wall of the carrier. Press the handle downward until the angled edges on the bottom of the handle are past the bottom of the solid end wall of the carrier, then pull up.

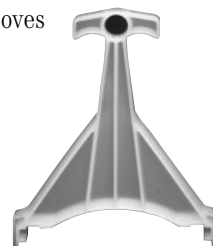
- Overall size:
465 mm × 71 mm × 27 mm (18.3" × 2.8" × 5.0")
- Part numbers:
A057-1-0215 for use with low profile carriers with handles
A057-2-0215 for use with high profile carriers with handles



Slingshot Style

To use, simply slip the grooves of the handle over the top flanges of the carrier.

- Overall size:
31 mm × 254 mm × 287 mm
(1.2" × 10.0" × 11.3")
- Part number:
A192-80-04-0215 for high and low profile carriers with handle stops



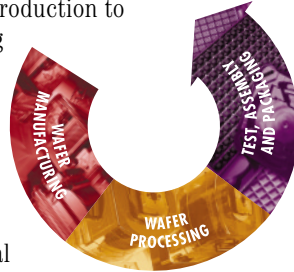
Material Specifications

Natural PFA

- High purity process wafer carrier material
- Translucent perfluoroalkoxy (PFA)
- Temperature limits:
 - Continuous use (process enhancement): 165°C
 - Continuous use (traditional): 180°C
 - Wafer insertion: 290°C

Silicon Delivery™ Systems and Services

To optimize wafer and device handling in your facilities, Entegris offers Silicon Delivery™ Systems and Services – our unique materials integrity management solution to cost-effectively manage silicon from production to consumption. Utilizing our systems and services capabilities, Entegris will work with you to develop a customized, coordinated package to address your individual requirements.



Wafer Handling Systems

- Raw wafer processing and shipping
- Wafer processing
- Finished wafer shipping and handling
- Related product handling
- Handling product cleaning systems

Device Handling Systems

- Finished wafer shipping and handling
- Bare die shipping and handling
- Packaged device shipping and handling
- Handling product cleaning systems

WaferCare™ and DeviceCare™ Services

- Certified reuse and recycle
- Product cleaning
- Logistics management
- On-site and off-site programs

For More Information

To find out more about what Entegris can do for you, please call one of our Regional Customer Service Centers today.

Entegris Regional Customer Service Centers

	Telephone	Fax
North America	952-556-4181	952-556-8022
North America Toll Free	800-394-4083	800-763-5820
Europe	49-7264-9158-0	49-7264-9158-927
Japan	81-3-5769-7800	81-3-5769-7845
Malaysia	604-403-1266	604-403-1262
Korea	82-31-738-1181	82-31-738-1191
Taiwan	886-3-5633598 886-3-5633552	886-3-5633521

Terms and Conditions of Sale

WARRANTY – Entegris warrants each new product against defects in materials and workmanship for the following periods of time from shipment: Microelectronics Group products, Custom products – 90 days; Entegris™ Cleaning Systems and AutoPod™ Wafer Carriers – 1 year; Fluid Handling Group products (except as separately identified below) including FluoroPure® Chemical Container products – 1 year; Sheetlined Chemical Container products and FluoroPure® PFA Liners (blistering, cracking or leakage only) – 18 months; FluoroPure® o-rings and gasket materials – 90 days. Entegris makes no warranty, express or implied, with respect to any components, products or services provided by any third party. With respect to products specially manufactured to Buyer's specifications, Entegris warrants only that such products have been manufactured, without testing, to Buyer's specifications but makes no other warranty, express or implied. Upon Entegris' confirmation of defects, Entegris agrees, as its **exclusive remedy** to repair or, in its discretion, replace defective product without charge. Entegris is not responsible for product damage resulting from accident, misuse, or lack of reasonable care.

IMPORTANT: No other warranty, written or verbal, is authorized by Entegris. Entegris is not liable for any special, incidental or consequential damages. Implied warranties of merchantability and fitness for a particular purpose are specifically disclaimed.

Mykron

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