Front End and Wafer Handling Products Catalog

販売元：ナガセテクノエンジニアリング株式会社

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About Us

Established in 1999 by a team of semiconductor industry veterans, ePAK is a full-service designer, manufacturer and supplier of precision engineered products and solutions for the automated transport and handling of semiconductor and electronic devices. Our product areas include front-end wafer handling, back-end IC transport, and end-system sub-assembly handling. Our products are sold globally to top tier global customers including semiconductor companies, system OEMs, and IC assembly and test operations. Our large-scale manufacturing and design centers in Shenzhen & Wuhu China are centrally located to the semiconductor industry's back-end activities and supports a global network of JIT distribution centers. ePAK's corporate headquarters is located in Austin, Texas and we maintain nine sales and applications engineering offices worldwide.

Device protection and contamination control begins at the wafer fab and extends to the assembly site. ePAK never forgets that the most valuable product in the semiconductor and electronics industry is also the most fragile and susceptible to mishandling and contamination. Not all wafers are created equal…with back-grinding, unique material sets, and exotic semiconductor processes, one product does not fit all wafers.

From ePAK's most advanced eLX wafer canisters to cost efficient wafer jars, ePAK tailor fits their products to meet your requirements.

- Expanding constantly to meet increasing demand
- Semiconductor & electronics packaging market focused
- Customer driven product development
- Over 130 injection molding lines
- Full range of materials available
- 12 cleaning lines for wafer products
- 4 class 100 clean rooms (over 4500 sq. meters)

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eLX™ WAFER CANISTERS*

- Enhanced protection of wafer surfaces
- Minimizes lateral movement without applying compression to delicate wafer edges
- Advanced design minimizes particle generation
- Secure 4 latch system (with 2 latch option)
- Impact resistant design
- Large label areas
- Interfaces with industry robotic handling equipment
- Drop-in replacement for old industry designs
- Protective shipping OverPAKs available…see products

Wafer canister part numbers and ordering information:

Wafer Size	ePAK Order Code	ePAK Description	Internal Diameter	Internal Height	Corner Latches #	Outside Base Size	Std Pack Quantity
6″	**eWB0086-2-x**	eCT-LX6/150-2-44-R.1-x	151 mm	44 mm (1.73″)	2	174.5mm x 174.5mm	10/carton
6″	**eWB0086-4-x**	eCT-LX6/150-4-44-R.1-x	151 mm	44 mm (1.73″)	4	174.5mm x 174.5mm	10/carton
6″	**eWB0019-2-x**	eCT-LX6/150-2-44-x	151 mm	44 mm (1.73″)	2	225mm x 225mm	10/carton
6″	**eWB0019-4-x**	eCT-LX6/150-4-44-x	151 mm	44 mm (1.73″)	4	225mm x 225mm	10/carton
6″**	**eWB0435-4-x**	eCT-LX-6/150-4-66-x	150.8 mm	66 mm (2.6″)	4	174.5mm x 174.5mm	10/carton
8″	**eWB0018-2-x**	eCT-LX8/200-2-44-x	201 mm	44 mm (1.73″)	2	225mm x 225mm	10/carton
8″	**eWB0018-4-x**	eCT-LX8/200-4-44-x	201 mm	44 mm (1.73″)	4	225mm x 225mm	10/carton
8″	**eWB0383-4-x**	eCT-LX-8/200-4-69-x	200.8 mm	69 mm (2.72″)	4	225mm x 225mm	10/carton
8″ **	**eWB0516-4-x**	eCT-LX-8/200-4-69-R.3-x	200.8 mm	69 mm (2.72″)	4	225mm x 225mm	10/carton
8″ ** (note 2)	**eWB0582-4-x**	eCT-LX-8/200-4-69-R.4-x	200.8 mm	69 mm (2.72″)	4	225mm x 225mm	10/carton
12″	**eWB0026-4-x**	eCT-LX12/300-4-44-x	301.5 mm	44 mm (1.73″)	4	326mm x 326mm	12/carton
12″**	**eWB0371-4-x**	eCT-LX12/300-4-71-x	301.2 mm	71 mm (2.79″)	4	326mm x 326mm	8/carton

*** FHRS & Standard Ring separator compatible canisters (Pg. 8)*
Note 2: Latches are outside enclosure

(PATENTS: US #6988620, PRC #ZL 03 2 07820 X, Singapore #106157, Taiwan # I299315, Japan #4383808)

eFORM™ – Clean Adjustable Platform option to minimize vertical movement (–x in P/N):

Wafer Size	ePAK Order Code	ePAK Description	Diameter	Adjustable Height	Std Pack Quantity
6″	**eOP0042-x**	eAP6-150-16-x	150 mm	16 mm	10/pack
8″	**eOP0041-x**	eAP8-200-16-x	200 mm	16 mm	10/pack
12″	**eOP0045-x**	eAP12-300-16-x	300 mm	16 mm	10/pack

Material code options: (–x in P/N):

Material	Code	SR
Conductive PP	eM-01-BLK	10e4-10e5

-A wide range of cushion disks and wafer separators are available-

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STANDARD WAFER CANISTERS

- For high-security transit of wafers
- Designed for stacking
- Quick release snap-lock design for lid removal
- Recessed slots for easy loading and unloading
- Wafer loader machine compatible with most industry equipment
- Protective shipping OverPAKs available…see products

Wafer canister part numbers and ordering information:

Wafer Size	ePAK Order Code	ePAK Description	Internal Diameter	Internal Height	Corner Latches #	Std Pack Quantity
5″ **	**eWB0055-2-x**	eLC-TI5/125-2-x	127 mm	28 mm (1.1″)	2	20/carton
5″ **	**eWB0055-4-x**	eLC-TI5/125-4-x	127 mm	28 mm (1.1″)	4	20/carton
6″ **	**eWB0102-2-x**	eLC-TI6/150-2-x	152 mm	28 mm (1.1″)	2	20/carton
6″	**eWB0007-x**	eCT-152-26-x	152 mm	26 mm (1.1″)	2	30/carton
8″ **	**eWB0075-2-x**	eLC-TI8/200-2-x	202 mm	28 mm (1.1″)	2	20/carton
8″ **	**eWB0075-4-x**	eLC-TI8/200-4-x	202 mm	28 mm (1.1″)	4	20/carton
8″	**eWB0004-x**	eCT-202-30-x	202 mm	30 mm (1.2″)	2	20/carton
8″	**eWB0234-2-x**	eCT8/200-38-2-x	202 mm	38 mm (1.5″)	2	20/carton
8″	**eWB0234-4-x**	eCT8/200-38-4-x	202 mm	38 mm (1.5″)	4	20/carton
8″	**eWB0585-x**	eCT8/200-13.6-x	202 mm	8 mm (0.3″)	4	20/carton
12″ **	**eWB0009-x**	eCT-303-21-x	303 mm	21 mm (0.9″)	4	10/carton

(** Patented "Double Ring" design)

Material code options: (–x in P/N):

Material	Code	SR
Conductive PP	eM-01-BLK	10e4-10e5
Natural PP	eM-08-NAT	n/a

- A wide range of cushion disks and wafer separators are available

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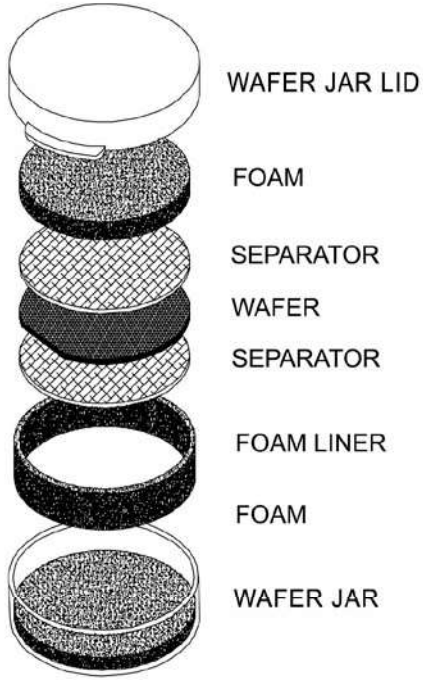
WAFER JARS

- Easy loading/unloading in automated or manual applications
- Impact resistant containers feature a snap-on lid for secure packing
- Available in both conductive PP and natural (non-conductive) PP materials
- A wide range of cushion disks, jar liners and wafer separators are available
- Overpaks available…see products

Wafer Jar part numbers and ordering information:

Wafer Size	ePAK Order Code	ePAK Description	Internal Diameter	Internal Height	Std Pack Quantity
4″	**eWB0040-x**	eJR4-100-23-x	111 mm	23 mm (0.9″)	200/carton
4″	**eWB0044-x**	eJR4-100-32-x	111 mm	32 mm (1.3″)	200/carton
4″	**eWB0038-x**	eJR4-100-49-x	117 mm	49 mm (1.9″)	100/carton
4″	**eWB0041-x**	eJR4-100-60.5-x	111 mm	60.5 mm (2.4″)	100/carton
5″	**eWB0072-x**	eJR5-125-38-x	142 mm	38 mm (1.5″)	100/carton
5″	**eWB0128-x**	eJR5-125-49-x	142 mm	49 mm (1.9″)	100/carton
5″(Note #1)					
5″(Note #2)		-			
5″ (Note #3)		-			
6″	**eWB0033-x**	eJR6-150-20-x	167 mm	20 mm (0.8″)	100/carton
6″	**eWB0001-x**	eJR-170-38-x	167 mm	38 mm (1.5″)	100/carton
6″	**eWB0150-x**	eJR6-150-49-x	167 mm	49 mm (1.9″)	100/carton
6″	**eWB0008-x**	eJR-167-76-x	167 mm	76 mm (3″)	60/carton
6″ (eLX style, see Note 5)	**eWB0586-x**	eJR6-150-38-x	151 mm	38 mm (1.5″)	100/carton
8″	**eWB0035-x**	eJR8-200-23-x	235 mm	23 mm (0.9″)	40/carton
8″	**eWB0010-x**	eJR-235-51-x	235 mm	51 mm (2″)	20/carton
8″ (eLX style, see Note 5)	**eWB0579-x**	eJR8-200-51-x	235 mm	51 mm (2″)	20/carton
12″(Note #4)	**eWB0054-x**	eJR12-300-23-x	303 mm	23 mm (0.9″)	10/carton

Note #1: Additional 5″x 20mm option for wafers utilize the 6″ (eJR-150-20-X) Jar, 6″ (eFL6-518-19-6-eM-04-H-PNK) Liner, and the 5″(eFL5-474-19-13-eM-04-H-PNK) Liner
Note #2: Additional 5″x 38mm option for wafers utilize the 6″ (eJR-170-38-X) Jar, 6″ (eFL6-518-37-6- eM-04-H-PNK) Liner, and the 5″(eFL5-474-37-13-eM-04-H-PNK) Liner
Note #3: Additional 5″x 76mm option for wafers utilize the 6″ (eJR-167-76-X) Jar, 6″ (eFL6-518-75-6- eM-04-H-PNK) Liner, and the 5″(eFL5-474-75-13-eM-04-H-PNK) Liner
Note #4: Patented "Double Ring" design does not require a foam liner
Note #5: Patented "eLX" style internal features reduce lateral movement and do not require a foam liner



Material code options: (–x in P/N):

Material	Code	SR
Conductive PP	eM-01-BLK	10e4-10e5
Natural PP	eM-08-NAT	n/a

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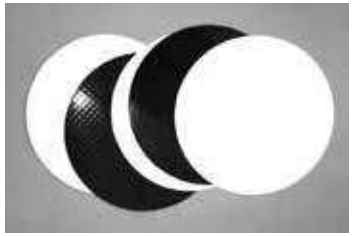
WAFER SEPARATORS



Wafer Separators – (Interleaf) for use between individual wafers

Anti-static spun PO (Tyvek®):

Wafer Size	ePAK Order Code	ePAK Description	Interleaf Diameter	Separator Thickness	Std Pack Quantity
4"	**eIL0010-eM-03-A-WHT**	eIL4-100-0.16-eM-03-A-WHT	100 mm	0.16 mm (.006")	250/pack
5"	**eIL0007-eM-03-A-WHT**	eIL5-125-0.16-eM-03-A-WHT	125 mm	0.16 mm (.006")	250/pack
6"	**eIL0005-eM-03-A-WHT**	eIL6-150-0.16-eM-03-A-WHT	150 mm	0.16 mm (.006")	250/pack
8"	**eIL0004-eM-03-A-WHT**	eIL8-200-0.16-eM-03-A-WHT	200 mm	0.16 mm (.006")	250/pack
12"	**eIL0006-eM-03-A-WHT**	eIL12-300-0.16-eM-03-A-WHT	300 mm	0.16 mm (.006")	250/pack

Carbon Separator (Conductive PS):

Wafer Size	ePAK Order Code	ePAK Description	Interleaf Diameter	Separator Thickness	Std Pack Quantity
4"	**eIL0023-eM-20-BLK**	eIL4-100-0.07-eM-20-BLK	100 mm	0.07 mm (.003")	200/pack
4"	**eIL0009-eM-20-BLK**	eIL4-100-0.13-eM-20-BLK	100 mm	0.13 mm (.005")	200/pack
5"	**eIL0024-eM-20-BLK**	eIL5-125-0.07-eM-20-BLK	125 mm	0.07 mm (.003")	200/pack
5"	**eIL0008-eM-20-BLK**	eIL5-125-0.13-eM-20-BLK	125 mm	0.13 mm (.005")	200/pack
6"	**eIL0016-eM-20-BLK**	eIL6-150-0.07-eM-20-BLK	150 mm	0.07 mm (.003")	200/pack
6"	**eIL0002-eM-20-BLK**	eIL6-150-0.13-eM-20-BLK	150 mm	0.13 mm (.005")	200/pack
8"	**eIL0022-eM-20-BLK**	eIL8-200-0.07-eM-20-BLK	200 mm	0.07 mm (.003")	200/pack
8"	**eIL0001-eM-20-BLK**	eIL8-200-0.13-eM-20-BLK	200 mm	0.13 mm (.005")	200/pack
12"	**eIL0003-eM-20-BLK**	eIL12-300-0.16-eM-20-BLK	300 mm	0.16 mm (.006")	150/pack

Material code info:

Material	Code	SR
Anti-static spun PO (Tyvek®)	eM-03-A-WHT	10e6-10e11
Proprietary conductive PS	eM-20-BLK	10e4-10e11

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RING SEPARATORS

- Ring Separators are used when a surface contact is not preferred. Outer raised edge of the ring contacts only the wafer outer circumference on its active surface.
- Ring separators are only for use in "eLX" style canisters as they require lateral movement to be minimized.
- The eLX canisters, eWB0383 & (200mm) and eWB0516mWB0371 (300mm) are designed for 25 wafers when using Ring Separators.
- "Fixed Height Ring Separators" (FHRS) are designed to self-stack. They always have same # of rings per canister & the stacking feature removes weight of wafer stack from individual wafers.

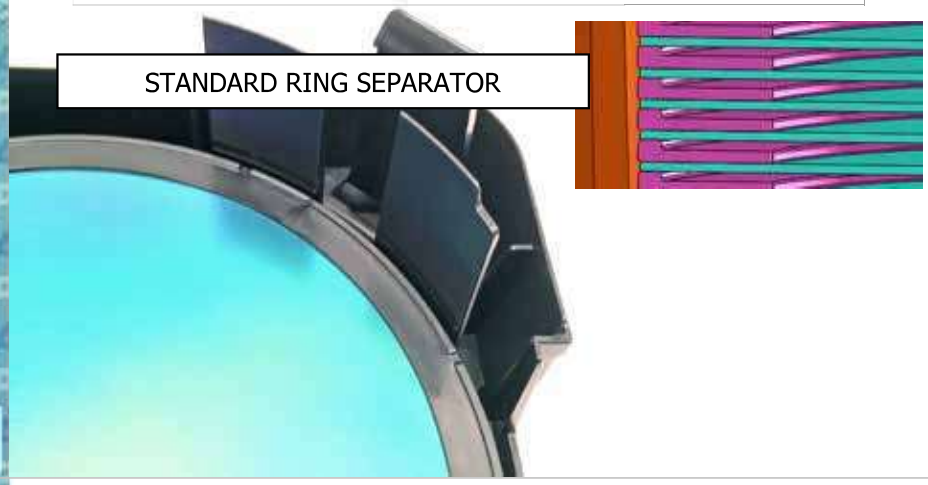
Wafer Size	ePAK Order Code	ePAK Description	Separator Diameter	Separator Thickness	Std Pack Quantity
STANDARD RING SEPARATORS (uses wafers thickness to establish separation)					
6" (150mm)	**eRS0003-eM-01-BLK**	150MM COIN STACK RING SEPARATOR-eM-01-BLK	150 mm	1.75 mm	1200/box
8" (200mm)	**eRS0001-eM-01-BLK**	200MM COIN STACK RING SEPARATOR-eM-01-BLK	200 mm	1.75 mm	600/box
8" (200mm)	**eRS00013-eM-01-BLK**	200MM COIN STACK RING SEPARATOR R.5-eM-01-BLK	200 mm	2.80 mm	600/box
8" (200mm)	**eRS00016-eM-01-BLK**	200MM COIN STACK RING SEPARATOR R.6-eM-01-BLK	200 mm	2.90 mm	600/box
12" (300mm)	**eRS0002-eM-01-BLK**	300MM COIN STACK RING SEPARATOR-eM-01-BLK	300 mm	1.75 mm	200/box
FHRS (Fixed Height Ring Separators) -Uses outside stacking supports to provide separation and minimize stack pressure on wafers**					
*6" (150mm)	**eRS0023-eM-01-BLK**	eFHRS-150-R.2-eM-01-BLK (*See *Note #1* below)	150mm	2.28 mm	52/carton
*8" (200mm)	**eRS0024-eM-01-BLK**	eFHRS-200-eM-01-BLK (*See *Note #2* below)	200 mm	3.40 mm	52/carton
8"(200mm)	**eRS0026-eM-01-BLK**	eFHRS-200-R.1-eM-01-BLK (for <1.20mm thickness wafers)	200 mm	3.32 mm	52/carton
8"(200mm)	**eRS0028-eM-01-BLK**	eFHRS-200-R.2-eM-01-BLK (for <0.90mm thickness wafers)	200 mm	3.47 mm	52/carton
*12" (300mm)	**eRS0015-eM-01-BLK**	eFHRS-300-eM-01-BLK (*See *Note #3* below)	300 mm	3.75 mm	26/carton

**Note #1- Fixed Height Ring Separator design. Only designed for use with eWB0435-4-x wafer canister.*
**Note #2- Fixed Height Ring Separator design. Only designed for use with eWB0516-4-x wafer canister.*
**Note #3- Fixed Height Ring Separator design. Only designed for use with eWB0371-4-x wafer canister.*

Material code:

Material	Code	SR
Conductive PP	eM-01-BLK	10e4-10e5

**PATENT PENDING



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FOAM PACKING MATERIALS
-FOAM CUSHION DISKS-

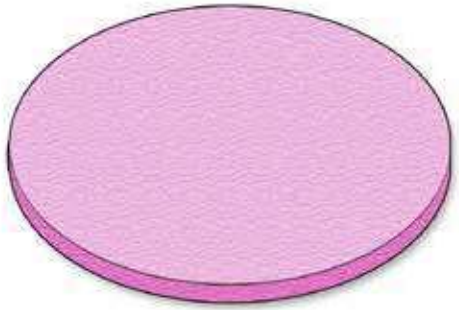
Top/Bottom Cushion Disks – ESD sensitive cushioning material for use with Canisters and Jars

Wafer Size	ePAK Order Code	ePAK Description	Foam Diameter	Foam Thickness	Std Pack Quantity
4″	**eFD0010-eM-04-H-PNK**	eFD4-100-3-eM-04-H-PNK	100mm	3 mm	100/pack
4″	**eFD0011-eM-04-H-PNK**	eFD4-100-6-eM-04-H-PNK	100mm	6 mm	50/pack
5″	**eFD0008-eM-04-H-PNK**	eFD5-125-3-eM-04-H-PNK	125mm	3 mm	100/pack
5″	**eFD0004-eM-04-H-PNK**	eFD5-125-6-eM-04-H-PNK	125mm	6 mm	50/pack
6″	**eFD0007-eM-04-H-PNK**	eFD6-150-3-eM-04-H-PNK	150mm	3 mm	100/pack
6″	**eFD0002-eM-04-H-PNK**	eFD6-150-6-eM-04-H-PNK	150 mm	6 mm	50/pack
8″	**eFD0006-eM-04-H-PNK**	eFD8-200-3-eM-04-H-PNK	200 mm	3 mm	100/pack
8″	**eFD0001-eM-04-H-PNK**	eFD8-200-6-eM-04-H-PNK	200 mm	6 mm	50/pack
***8″	**eFD0013-eM-04-H-PNK**	eFD8-205-3-eM-04-H-PNK	205 mm	3 mm	100/pack
***8″	**eFD0012-eM-04-H-PNK**	eFD8-205-6-eM-04-H-PNK	205 mm	6 mm	50/pack
12″	**eFD0009-eM-04-H-PNK**	eFD12-300-3-eM-04-H-PNK	300 mm	3 mm	100/pack
12″	**eFD0003-eM-04-H-PNK**	eFD12-300-6-eM-04-H-PNK	300 mm	6 mm	50/pack

***FOR USE WITH WAFER JAR ONLY

Material code options:

Material	Code	SR
Closed-cell polyethylene	eM-04-H-PNK	10e5-10e11



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FOAM PACKING MATERIALS
- JAR LINERS-

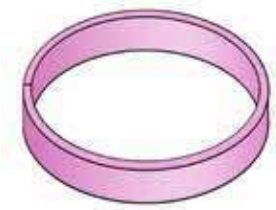
Jar Liner – ESD sensitive cushioning material for use with Wafer Jars only

Wafer Size	ePAK Order Code	ePAK Description	Foam Length	Foam Width	Foam Thickness	Std Pack Quantity
4″	**eFL0022-eM-04-H-PNK**	eFL4-345-22-3-eM-04-H-PNK	345 mm	22 mm	3 mm	25/pack
4″	**eFL0028-eM-04-H-PNK**	eFL4-345-31-3-eM-04-H-PNK	345 mm	31 mm	3 mm	25/pack
4″	**eFL0023-eM-04-H-PNK**	eFL4-362-48-6-eM-04-H-PNK	362 mm	48 mm	6 mm	25/pack
4″	**eFL0029-eM-04-H-PNK**	eFL4-345-59.5-3-eM-04-H-PNK	345 mm	59.5 mm	3 mm	25/pack
5″	**eFL0039-eM-04-H-PNK**	eFL5-435-37-6-eM-04-H-PNK	435 mm	37 mm	6 mm	25/pack
5″	**eFL0056-eM-04-H-PNK**	eFL5-435-48-6-eM-04-H-PNK	435 mm	48 mm	6 mm	25/pack
5″ (see Note#1)	**eFL0030-eM-04-H-PNK**	eFL5-474-19-13-eM-04-H-PNK	474 mm	19 mm	13 mm	25/pack
5″ (see Note#2)	**eFL0007-eM-04-H-PNK**	eFL5-474-37-13-eM-04-H-PNK	474 mm	37 mm	13 mm	25/pack
5″ (see Note#3)	**eFL0008-eM-04-H-PNK**	eFL5-474-75-13-eM-04-H-PNK	474 mm	75 mm	13 mm	25/pack
6″	**eFL0012-eM-04-H-PNK**	eFL6-518-19-6-eM-04-H-PNK	518 mm	19 mm	6 mm	50/pack
6″	**eFL0002-eM-04-H-PNK**	eFL6-518-37-6-eM-04-H-PNK	518 mm	37 mm	6 mm	50/pack
6″	**eFL0062-eM-04-H-PNK**	eFL6-518-48-6-EM-04-H-PNK	518 mm	48 mm	6 mm	50/pack
6″	**eFL0003-eM-04-H-PNK**	eFL6-518-75-6-eM-04-H-PNK	518 mm	75 mm	6 mm	50/pack
8″	**eFL0013-eM-04-H-PNK**	eFL8-712-22-13-eM-04-H-PNK	712 mm	22 mm	13 mm	25/pack
8″	**eFL0001-eM-04-H-PNK**	eFL8-712-50-13-eM-04-H-PNK	712 mm	50 mm	13 mm	25/pack

Notes#1 This 5″ wafer configuration utilizes the 6″(eJR-167-20-X) Jar, 6″ (eFL6-518-19-6-eM-04-H-PNK) Liner, and this 5″(eFL5-474-19-13-eM-04-H-PNK) Liner

Notes#2 This 5″ wafer configuration utilizes the 6″(eJR-167-38-X) Jar, 6″ (eFL6-518-37-6-eM-04-H-PNK) Liner, and this 5″(eFL5-474-37-13-eM-04-H-PNK) Liner

Notes#3 This 5″ wafer configuration utilizes the 6″(eJR-167-76-X) Jar, 6″ (eFL6-518-75-6-eM-04-H-PNK) Liner, and this 5″(eFL5-474-75-13-eM-04-H-PNK) Liner



Material code options:

Material	Code	SR
Closed-cell polyethylene	eM-04-H-PNK	10e5-10e11

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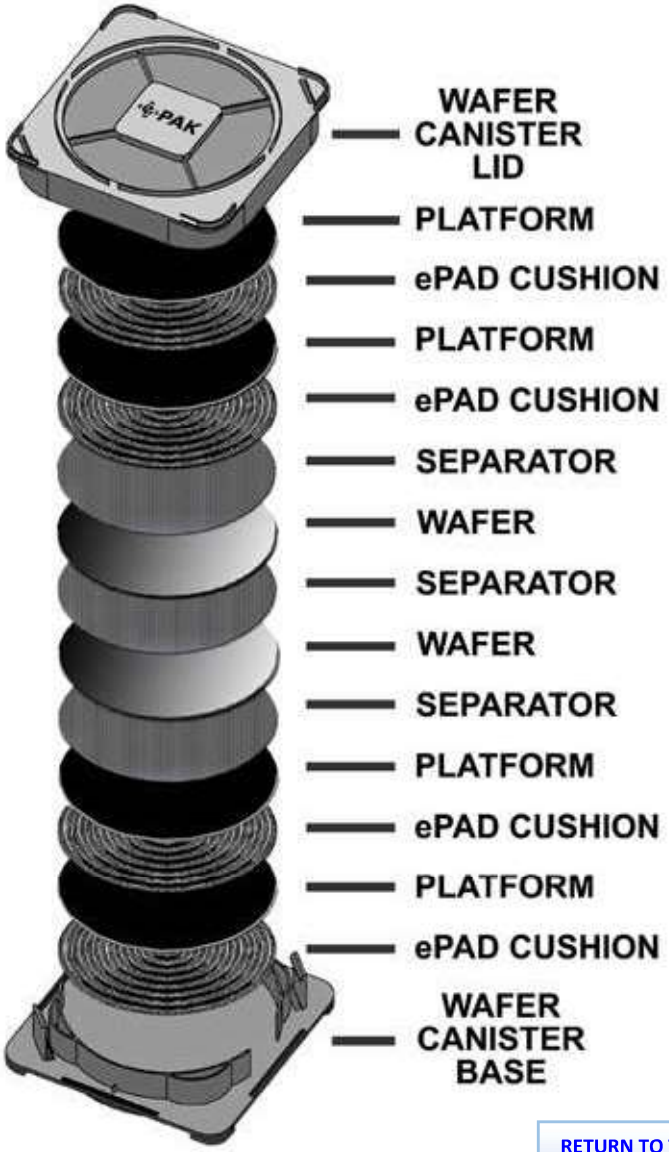
ePAD™* WAFER PROTECTION SYSTEM



High performance alternative to foam-based solutions

- Made from proprietary, low-ionic, flexible, conductive polystyrene
- Ideal for both Cu and Al metallized wafers
- Best choice for both long and short term storage needs
- Available for 6", 8" and 12" wafer sizes

(PATENTS: US #7425362, Singapore #105587, Japan #4205540, Taiwan #I297662, PRC#ZL 03 2 07819.6)

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ePAD™* PACKING MATERIALS

ePAD™ Thermal Formed Wafer Cushion – Particle free, vacuum formed, cushioning material for wafer stack

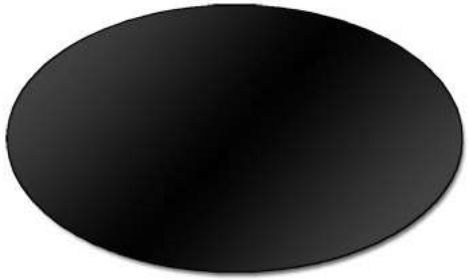
Wafer Size	ePAK Order Code	ePAK Description	Diameter	Thickness	Std Pack Quantity
6″	**eVT0208-x**	eWP6-150-3-x	150 mm	3 mm	50/box
6″	**eVT0048-x**	eWP6-150-5-x	150 mm	5 mm	50/box
8″	**eVT0209-x**	eWP8-200-3-x	200 mm	3 mm	50/box
8″	**eVT0030-x**	eWP8-200-5-x	200 mm	5 mm	50/box
12″	**eVT0210-x**	eWP12-300-5-x	300 mm	5 mm	50/box

ePAD™ Wafer Platform – Provides the flat surface required for the proper function of the ePAD system

Wafer Size	ePAK Order Code	ePAK Description	Diameter	Thickness	Std Pack Quantity
6″	**eVT0049-x**	eFP6-150-0.8-x	150 mm	0.8 mm	50/box
8″	**eVT0050-x**	eFP8-200-0.8-x	200 mm	0.8 mm	50/box
12″	**eVT0211-x**	eFP12-300-0.8-x	300 mm	0.8 mm	50/box

Material code options for all ePAD™ Thermal Formed Wafer packing materials: (–x in P/N):

Material	Code	SR
Proprietary conductive PS	eM-20-BLK	10e4-10e11



(PATENTS: US #7425362, Singapore #105587, Japan #4205540, Taiwan #I297662, PRC#ZL 03 2 07819.6)

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VACUUM-FORMED WAFER SHIPPING BOXES

- Designed to hold 25 wafers by the edge
- Economical solution for small wafers
- 2 piece design includes Lid and Base

Product info:

Wafer Size	ePAK Order Code	ePAK Description	Internal Diameter	Material Options
1″	**eVT0404-ASSY-1**	eV8-1/25-25-Base/Lid-0.8-ASSY-1	25 mm	eM-21
2″	**eVT0241-ASSY-#**	eV8-2/50-25-Base/Lid-0.8-ASSY-#	50 mm	eM-20, eM-21
2″ SQ	**eVT1199-ASSY-2**	eV10-2/50.8-25-1.0-ASSY-2	2″ Square	eM-21
2.5″	**eVT0406-ASSY-#**	eV10-2.5/63.5-25-Base/Lid-0.8-ASSY-#	63.5 mm	eM-20, eM-21
3″	**eVT0242-ASSY-1**	eV10-3/76-25-Base/Lid-1.3-ASSY-1	76 mm	eM-21
3″	**eVT0294-ASSY-1**	eV10-3/76-25-Base/Lid-0.8-ASSY-1	76 mm	eM-21
4″	**eVT0293-ASSY-1**	eV12-4/100-25-Base/Lid-0.7-ASSY-1	100 mm	eM-21
4″	**eVT0405-ASSY-1**	eV12-4/103-25-Base/Lid-1.3-ASSY-1	103 mm	eM-21
6″	**eVT0736-ASSY-1**	eV15-6/150-13-Base/Lid-1.5-ASSY-1	150 mm	eM-21

Material code options: (–x in P/N)

Material	Code	SR
Clear PS	eM-21-CLR	n/a
Proprietary conductive PS	eM-20-BLK	10e4-10e11

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WAFER SHIPPING BOXES

- Designed to hold multiple wafers by the edge
- 3-piece design includes Top, Cassette, and Base
- Designed to interface with automated equipment
- Clean Room plastic shipping bags available

Product info:

Wafer Size	ePAK Order Code	ePAK Description	Internal Diameter	Number of Wafers Held
1″	**eWB0302-ASSY-#**	eMS-1/25.4-25-R.1-ASSY-#	25.4 mm	25
2″	**eWB0028-ASSY-#**	eMS-2/50-25-ASSY-#	50 mm	25
** 2″	**eWB0340-ASSY-#**	eMS-2/50-25-R.2-ASSY-#	50 mm	25
2.5″	**eWB0105-ASSY-#**	eMS-2.5/61.75-25-ASSY-#	61.75 mm	25
3″	**eWB0029-ASSY-#**	eMS-3/76-25-ASSY-#	76 mm	25
** 3″	**eWB0297-ASSY-#**	eMS-3/76-25-R.3-ASSY-#	76 mm	25
4″	**eWB0258-ASSY-#**	eMS-4/100-10-ASSY-#	100 mm	10
4″	**eWB0259-ASSY-#**	eMS-4/100-25-ASSY-#	100 mm	25
6″	**eWB0286-ASSY-#**	eMS-6/150-10-ASSY-#	150 mm	10
6″	**eWB0347-ASSY-#**	eMS-6/150-10-R.1-ASSY-#	150 mm	10

**notes: eWB0340 & eWB0297 are for thinned wafers (<0.4mm)

Material code options:

Material	Code	SR
Conductive PP	eM-01-BLK	10e4-10e5
Natural PP	eM-08-NAT	n/a

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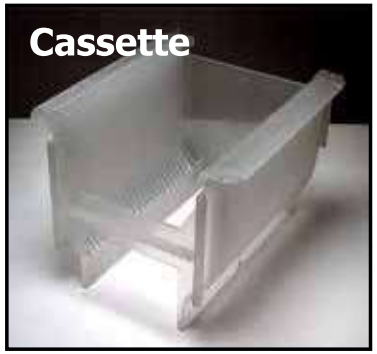
ePRO™* WAFER SHIPPING BOXES

- Designed to hold 25 wafers by the edge
- Made from ultra–clean PP material
- 3 piece design includes Lid, Cassette, and Base
- Protective shipping OverPAKs available…see products



Product info:

Wafer Size	ePAK Description	Internal Diameter
4″	ePRO-4/100-25-ASSY-#	100 mm
4″	ePRO II-4/100-25-ASSY-#	100 mm
4″	ePRO III-4/100-25-ASSY-#	100 mm
**4″	ePRO-THIN-4/100-25-ASSY-#	100 mm
5″	ePRO-5/125-25-ASSY-#	125 mm
5″	ePRO II-5/125-25-ASSY-#	125 mm
5″	ePRO III-5/125-25-ASSY-#	125 mm
6″	ePRO-6/150-25-ASSY-#	150 mm
6″	ePRO II-6/150-25-ASSY-#	150 mm
6″	ePRO III-6/150-25-ASSY-#	150 mm
8″	ePRO-8/200-25-ASSY-#	200 mm
8″	ePRO II-8/200-25-ASSY-#	200 mm
8″	ePRO III-8/200-25-ASSY-#	200 mm

**notes: ePRO-THIN are for thinned wafers (<0.3mm)

Material code options:

Material	Code	SR
Natural PP	eM-08-NAT	n/a
PC	eM-12, eM-175	n/a

Please contact ePAK or your local agent to discuss the many ePRO™ options available to fit your requirements.

(PATENTS: US 7967146, US D639154, Taiwan M356220, Singapore 150443)

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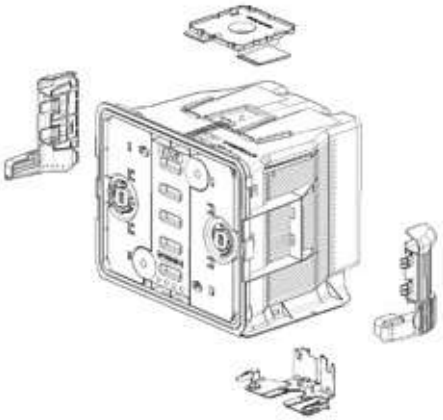
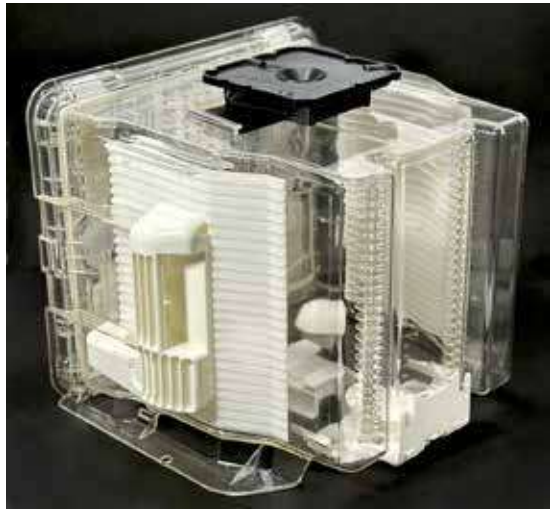
eFOSB300-A

(Front Opening Shipping Box – 300mm wafers)





- SEMI/FIMS compliant
- Automated operation minimizes potential contamination from human interaction
- Manual opening and closing
- Ultrapure, low outgassing materials protect wafers
- Robust wafer retention ensures reduced particle generation
- Cleanable without requiring disassembly of door

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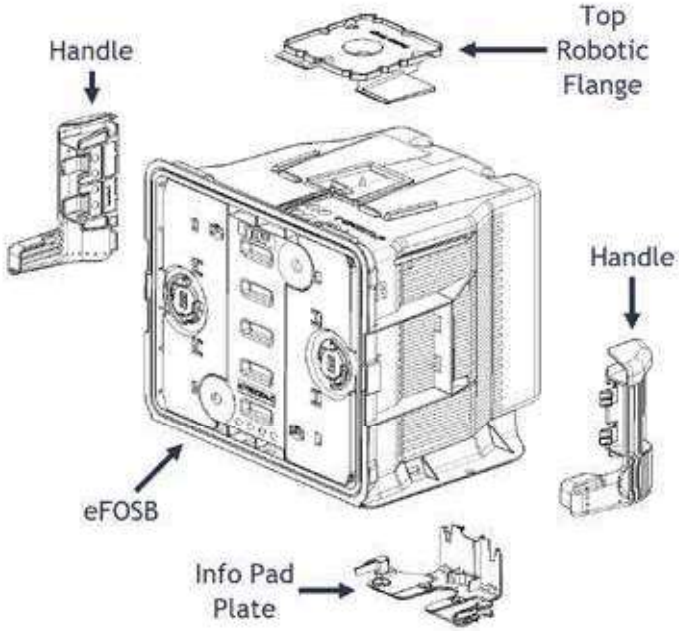
eFOSB300-A

(Front Opening Shipping Box – 300mm wafers)



Component
eFOSB
Handle (optional)
Robotic flange (optional)
Info tag plate (optional)
Info pads AB (optional)
Info pads CD (optional)

Option Combinations	Ordering Information		Component information				
	Order code	Description	Standard ASSY (eFOSB)	Manual Handle (H)	Top Robotic Flange (F)	Info-Pad Plate (I)	Empty weight
eFOSB, Handle, Robotic Flange, Info Tag Plate	**eWB0531-ASSY-3-HFI-X**	**eFOSB-A-ASSY-3-HFI-X**	eWB0531-ASSY-3	eWB0526-HL/HR-X	eWB0522-X	eWB0527-X	4.9 kg
eFOSB, Handle, Robotic Flange, Info Tag Plate, D-Ring	**eWB0531-ASSY-5-HFI-X**	**eFOSB-A-ASSY-5-HFI-X**	eWB0531-ASSY-5	eWB0526-HL/HR-X	eWB0522-X	eWB0527-X	4.9 kg

There are very many option variations and combinations that can be configured to meet your specific requirements. Please contact ePAK or your local agent for more information.

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eFOUP300-A

(Front Opening Unified Pod – 300mm wafers)

- SEMI/FIMS compliant
- Automated operation minimizes potential contamination from human interaction
- Manual opening and closing
- Ultrapure, low outgassing, ***ESD*** materials protect wafers during processing
- Robust wafer retention ensures reduced particle generation
- Cleanable without requiring disassembly of door
- Diffuser Purge options

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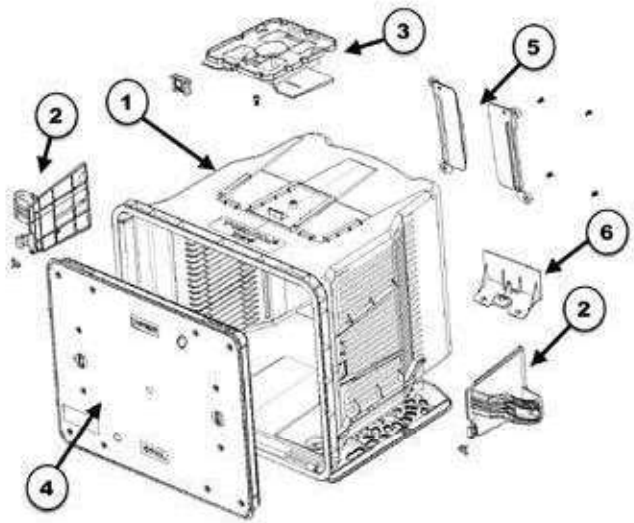
eFOUP200-A and eFOUP300-A

(Front Opening Unified Pod – 200mm & 300mm wafers)

Item	Component
1	Shell
2	Handles (optional)
3	Robotic flange (optional)
4	Cover
5	Card Holders (optional)
6	Info /RFID plate (optional)



Option Combinations	Ordering Information		Component information						
	Order code	Description	Standard ASSY (eFOUP)	Standard Cover/Door	Handles	Top Robotic Flange	Card Holder	Info/RFID Plate	SLOTS
eFOUP, White Handle, Flange, Card Holder, RFID	**eWB0685-ASSY-1**	**eFOUP300-A-ASSY-1-W**	eWB0685-ASSY-1 **(ORANGE TINT WINDOW)**	eWB0621-ASSY-1	eWB0635-HL/HR-eM-12-WHT	eWB0644-X	eWB0638-HL/HR-X	eWB0639/ eWB0640	25
eFOUP, White Handle, Flange, Card Holder, RFID	**eWB0685-ASSY-12**	**eFOUP300-A-ASSY-12-W**	eWB0685-ASSY-6 **(CLEAR WINDOW)**	eWB0621-ASSY-1	eWB0635-HL/HR-eM-12-WHT	eWB0644-X	eWB0638-HL/HR-X	eWB0639/ eWB0640	25
eFOUP, White Handle, Flange, Card Holder, RFID	**eWB0764-ASSY-1**	**eFOUP300-13-ASSY-1**	eWB0764B-ASSY-1	eWB0761-assy-1	eWB0635-HL/HR-eM-12-WHT	eWB0644-X	eWB0638-HL/HR-X	eWB0760 TH-X	13
eFOUP, White Handle, Flange, Card Holder, RFID	**eWB0766-ASSY-1**	**eFOUP300-25-ASSY-1**	eWB0766B-ASSY-1	eWB0621-assy-1	eWB0635-HL/HR-eM-12-WHT	eWB0644-X	eWB0638-HL/HR-X	eWB0760 TH-X	25
eFOUP, White Handle, Flange, Card Holder, RFID	**eWB0762-ASSY-1**	**eFOUP200-13-ASSY-1**	eWB0762B-ASSY-1	eWB0761-assy-1	eWB0635-HL/HR-eM-12-WHT	eWB0644-X	eWB0638-HL/HR-X	eWB0760 TH-X	13
eFOUP, White Handle, Flange, Card Holder, RFID	**eWB0763-ASSY-1**	**eFOUP200-25-ASSY-1**	eWB0763B-ASSY-1	eWB0621-assy-1	eWB0635-HL/HR-eM-12-WHT	eWB0644-X	eWB0638-HL/HR-X	eWB0760 TH-X	25

There are very many option variations and combinations that can be configured to meet your specific needs and requirements. Please contact ePAK or your local agent for more information.

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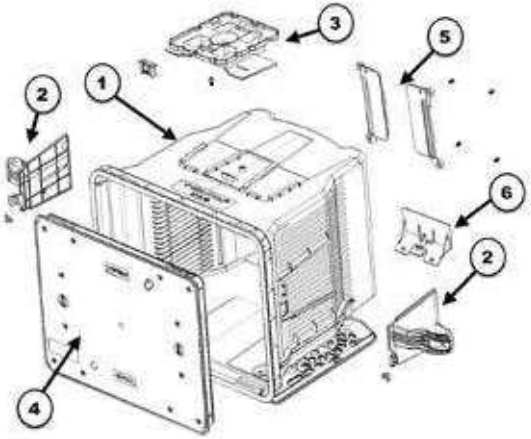
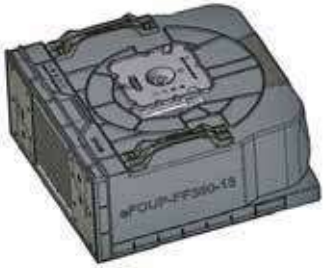
eFOUP FF276 and FF380

(Front Opening Unified Pod for wafers on Flex Frames)





For use with 200mm Wafers on 276mm Flat to Flat Flex Frames:

Option Combinations	Ordering Information		Component information					
	Order code	Description	Base ASSY	Cover/Door ASSY	Handles	Top Robotic Flange	Card Holder	Info/RFID Plate
eFOUP, White Handle, Flange, Card Holder, RFID	**eWB0765-ASSY-1-W**	**eFOUP-FF276-25-ASSY-1-W**	eWB0760B-ASSY-1	eWB0765C-ASSY-1	eWB0635-HL/HR-eM-12-WHT	eWB0644-X	eWB0638-HL/HR-X	eWB0760TH-X

For use with 300mm Wafers on Flex Frames (coming soon Q3, 2024):

Option Combinations	Ordering Information		Component information						
	Order code	Description	Base ASSY	Cover/Door ASSY	Handles	Top Robotic Flange	RFID	SLOTS	Empty weight
Handle, Flange, RFID	**eWB0743-ASSY-1**	**eFOUP-FF380-13-ASSY-1-W**	eWB0743B-ASSY-1	eWB0743C-ASSY-1	eWB0743H-eM-157	eWB0743RF-eM-157	YES	13	4.1 kg
Handle, Flange, RFID	**eWB0743-ASSY-2-W**	**eFOUP-FF380-13-ASSY-2-W**	eWB0743B-ASSY-2	eWB0743C-ASSY-1	eWB0743H-eM-157	eWB0743RF-eM-157	YES	13	4.1 kg

There are very many option variations and combinations that can be configured to meet your specific needs and requirements. Please contact ePAK or your local agent for more information.

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6 inch & 8 inch ePOD™ PRO

Wafer Size	ePAK Order code	ePAK. Description	Lid Profile	Cassette Loading	RFID option	L x W x H	Top flange clearance
6″	eWB0759-ASSY-1	ePOD-PRO6-ASSY-1	Low Profile	Center	No	304.8 x 291.4 x 224.8	17mm
6″	eWB0759-ASSY-1-RF	ePOD-PRO6-ASSY-1-RF	Low Profile	Center	Yes	304.8 x 291.4 x 224.8	17mm
6″	eWB0772A-ASSY-1	ePOD-PRO6A-R.1-ASSY-1	Low Profile	Preposed	No	304.8 x 291.4 x 224.8	17mm
6″	eWB0772A-ASSY-1-RF	ePOD-PRO6A-R.1-ASSY-1-RF	Low Profile	Preposed	Yes	304.8 x 291.4 x 224.8	17mm
8"	eWB0725-ASSY-3	ePOD-PRO8-ASSY-3	High Profile	Center	No	304.8 x 291.4 x 279.3	17mm
8"	eWB0725-ASSY-3-RF	ePOD-PRO8-ASSY-3-RF	High Profile	Center	Yes	304.8 x 291.4 x 279.3	17mm
8"/ 6"	eWB0772-ASSY-3	ePOD-PRO86-R.1-ASSY-3	High Profile	8" Centered / 6" preposed. See Note 1	No	304.8 x 291.4 x 279.3	17mm
8"/ 6"	eWB0772-ASSY-3-RF	ePOD-PRO86-R.1-ASSY-3-RF	High Profile	8" Centered / 6" preposed. See Note 1	Yes	304.8 x 291.4 x 279.3	17mm
6″/ 8"	eWB0772-ASSY-5	ePOD-PRO86-R.1-ASSY-5	High Profile	6" preposed /8" Centered. See Note 2	No	304.8 x 291.4 x 279.3	17mm
6″/ 8"	eWB0772-ASSY-5-RF	ePOD-PRO86-R.1-ASSY-5-RF	High Profile	6" preposed / 8" Centered. See Note 2	Yes	304.8 x 291.4 x 279.3	17mm

Note 1: Designed for 8" Cassette, but can potentially switch 6" Cassette later. Would need to exchange Cassette Retainer.
Note 2: Designed for 6" Cassette, but can potentially switch 8" Cassette later. Would need to exchange Cassette Retainer.

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2", 3" & 4" PROCESS BOATS &

(For Process Boat ordering information, see product details on Page 23)

ePB-2/50-25-x-y inside ePBX-2-ASSY-#

ePB-3/76-25-x-y inside ePBX-3-ASSY-#

ePB-4/100-25-x-y inside ePBX-4-ASSY-#

2", 3" & 4" Storage Box Product info:

Wafer Size	ePAK Order code	ePAK Description	Notes
2"	**eWB0095-ASSY-#**	ePBX-2-ASSY-#	Requires shelf to hold cassette, cushion available
3"	**eWB0123-ASSY-#**	ePBX-3-ASSY-#	Optional shelf for R.2, R.3 and R.6 cassettes, cushion available
3"	**eWB0260-ASSY-#**	ePBX-3-R.1-ASSY-#	Low height lid, no cushion available
3"	**eWB0433-ASSY-#**	ePBX-3-R.2-ASSY-#	3" Small body box, cushion available
4"	**eWB0124-ASSY-#**	ePBX-4-ASSY-#	Cushion available
4" (2 cassettes)	**eWB0097-ASSY-#**	ePBX-5/125-2-ASSY-#	5" x 2 cassette box with special shelf holds 2 x 4" cassettes

Material code info:

Material	Code	SR
Conductive Polypropylene (Black only)	eM-01-BLK	10e4-10e5
Polypropylene (Multiple Color Options →)	eM-08-(color code)	n/a

Color code info	BLU = Blue GRN = Green RED = Red YLW = Yellow

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5" PROCESS BOATS & BOXES

(For ordering information, see product details on Pages 23-26)

ePB-5/125-25-x-y

ePB-5/125-25-R.1-eM-61-BRW

ePB-5/125-25-R.2-x-y

ePB-5/125-25-R.4-eM-47-BLK

ePB-5/125-25-R.5-x-y

ePBX-5/125-ASSY-#

ePBX-5/125-R.1-ASSY-#

ePBX-5/125-2-ASSY-#

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6" PROCESS BOATS & BOXES

(For ordering information, see product details on Pages 24-26)

ePB-6/150-25-x-y

ePB-6/150-25-R.1-x-y

ePB-6/150-25-R.2-eM-47-BLK

ePB-6/150-25-R.4-eM-56

ePB-6/150-25-R.6-x-y

ePB-6/150-25-R.9-x-y

ePB-6/150-12-x-y

ePB-6/150-15-x-y

ePB-6/150-18-x-y

ePB-6/150-18-R.1-eM-47-BLK

ePBX-6/150-ASSY-#

ePBX-6/150-R.1-ASSY-#

ePBX-6/150-R.3-ASSY-#

ePBX-6/150-R.5-ASSY-#

ePBX-6/150-R.10-ASSY-#

ePBX-6/150-2-ASSY-#

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8" PROCESS BOATS & BOXES

(For ordering information, see product details on Pages 25 - 27)

ePB-8/200-25-eM-45-BLK

ePB-8/200-25-R.2-x-y

ePB-8/200-13-x-y

ePB-8/200-25-R.9-eM-47

ePBX-8/200-ASSY-#

ePBX-8/200-R.1-ASSY-#

ePBX-8/200-R.3-ASSY-#

ePBX-8/200-R.6-ASSY-#

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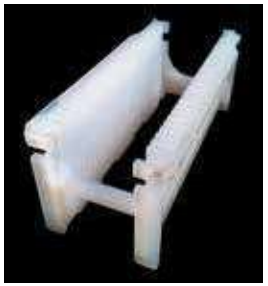
PFA PROCESS CASSETTES



ePB-2/50-25-R.1-eM-39-NAT

ePB-3/76-25-R.6-eM-39-NAT

ePB-4/100-25-R.9-eM-39-NAT

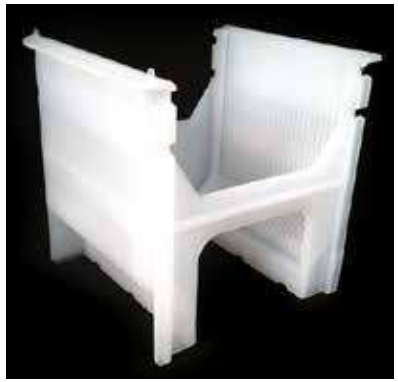
ePB-6/150-25-R.8-eM-39-NAT

ePB-6/150-25-R.10-eM-39-NAT

ePB-8/200-25-R.6-eM-39-NAT

ePB-8/200-25-R.10-eM-39-NAT

ePB-6/150-18-R.2-eM-39-NAT



ePB-6/150-25-R.11-eM-39-NAT

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PROCESS BOATS

Wafer Size	ePAK Order Code	ePAK P/N Description	Materials available	Notes	Internal Diameter	Slots
2"	**eWB0031-x-y**	ePB-2/50-25-x-y	eM-01-BLK, eM-08-y, eM-56-NAT	-	50 mm	25
2"	**eWB0316-eM-39-NAT**	ePB-2/50-25-R.1-eM-39-NAT	eM-39-NAT	-	50 mm	25
2.5″	**eWB0405-eM-39-NAT**	ePB-2.5/63.5-25-eM-39-NAT	eM-39-NAT		63.5mm	25
3″	**eWB0032-x-y**	ePB-3/76-25-x-y	eM-01-BLK, eM-08-y, eM-56-NAT	-	76 mm	25
3″	**eWB0092-x-y**	ePB-3/76-25-R.2-x-y	eM-01-BLK, eM-08-y, eM-56-NAT	-	76 mm	25
3″	**eWB0096-x-y**	ePB-3/76-25-R.3-x-y	eM-01-BLK, eM-08-y, eM-56-NAT	-	76 mm	25
3″	**eWB0276-x-y**	ePB-3/76-25-R.4-x-y	eM-01-BLK, eM-08-y, eM-56-NAT	-	76 mm	25
3″	**eWB0280-eM-56-NAT**	ePB-3/76-25-R.5-eM-56	eM-56-NAT	(note: 3″ boat in a 5″ Outline)	76 mm	25
3″	**eWB0306-eM-39-NAT**	ePB-3/76-25-R.6-eM-39-NAT	eM-39-NAT	-	76 mm	25
4″	**eWB0049-x-y**	ePB-4/100-25-x-y	eM-01-BLK, eM-08-y, eM-56-NAT	-	100 mm	25
4″	**eWB0125-eM-56-NAT**	ePB-4/100-25-R.2-x-y	eM-56-NAT	(note: 4″ boat in a 5″ Outline)	100 mm	25
4″	**eWB0277-x-y**	ePB-4/100-25-R.6-x-y	eM-01-BLK, eM-08-y, eM-56-NAT	-	100 mm	25
4″	**eWB0308-x-y**	ePB-4/100-25-R.8-x-y	eM-01-BLK, eM-08-y, eM-56-NAT	-	100 mm	25
4″	**eWB0309-eM-39-NAT**	ePB-4/100-25-R.9-eM-39-NAT	eM-39-NAT	"-W" Window Option available	100 mm	25
4″	**eWB0604-eM-39-NAT**	ePB-4/100-20-eM-39-NAT	eM-39-NAT		100 mm	20
5″	**eWB0088-x-y**	ePB-5/125-25-x-y	eM-01-BLK, eM-08-y, eM-56-NAT	Window is Standard	125 mm	25
5″	**eWB0098-eM-61-BRW**	ePB-5/125-25-R.1-eM-61-BRW	eM-61-BRW	"-N-" Notch Option available	125 mm	25
5″	**eWB0114-x-y**	ePB-5/125-25-R.2-x-y	eM-01-BLK, eM-08-y, eM-56-NAT	-	125 mm	25
5″	**eWB0229-eM-47-BLK**	ePB-5/125-25-R.4-eM-47-BLK	eM-47-BLK	"-N-" Notch Option available	125 mm	25
5″	**eWB0300-x-y**	ePB-5/125-25-R.5-x-y	eM-01-BLK, eM-08-y, eM-56-NAT	-	125 mm	25
5″	**eWB0536-eM-39**	ePB-5/125-25-R.6-eM-39	eM-39	5″ boat in a 6″ outline	125mm	25

Material code info ("x" in P/N):

Material	Code	SR
Conductive Polypropylene (Black color only)	eM-01-BLK	10e4-10e5
Polypropylene (Multiple Color Options →)	eM-08-y	n/a
PFA (No color option)	eM-39-NAT	n/a
PP+PTFE+ CF (Dark Grey color only)	eM-45-BLK	10e4-10e10
PEEK + CF (No color option)	eM-47-BLK	≤10e9
Polyvinylidene Difluoride (PVDF, Natural color only)	eM-56-NAT	n/a

Color code info (-y in P/N)	NAT = Natural(no color added) BLU = Blue GRN = Green RED = Red YLW = Yellow

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PROCESS BOATS (continued)

Wafer Size	ePAK Order Code	ePAK P/N Description	Materials Available	Notes and/or Alternative ePAK P/N (-N) =with Notch Option (-W) =with Window Option (-H) =with Handle Option	Internal Diameter	Slots
6″	**eWB0051-x-y**	ePB-6/150-25-x-y	eM-01-BLK, eM-08-y, eM-56-NAT	ePB-6/150-25-N-x-y	150 mm	25
6″	**eWB0052-x-y**	ePB-6/150-25-R.1-x-y	eM-01-BLK, eM-08-y, eM-56-NAT	ePB-6/150-25-R.1-N-x-y	150 mm	25
6″	**eWB0101-N-eM-47-BLK**	ePB-6/150-25-R.2-N-eM-47-BLK	eM-47-BLK	Notch is Standard	150 mm	25
6″	**eWB0153-eM-56**	ePB-6/150-25-R.4-eM-56	eM-56-NAT	ePB-6/150-25-R.4-N-eM-56	150 mm	25
6″	**eWB0188-x-y**	ePB-6/150-25-R.6-x-y	eM-01-BLK, eM-08-y, eM-56-NAT	ePB-6/150-25-R.6-N-x-y	150 mm	25
6″	**eWB0304-eM-39-NAT**	ePB-6/150-25-R.8-eM-39-NAT	eM-39-NAT	ePB-6/150-25-R.8-W-eM-39-NAT	150 mm	25
6″	**eWB0307-x-y**	ePB-6/150-25-R.9-x-y	eM-01-BLK, eM-08-y, eM-56-NAT	ePB-6/150-25-R.9-W-x-y	150 mm	25
6″	**eWB0318-eM-39-NAT**	ePB-6/150-25-R.10-eM-39-NAT	eM-39-NAT	Low Profile	150 mm	25
6″	**eWB0327-eM-39-NAT**	ePB-6/150-25-R.11-eM-39-NAT	eM-39-NAT	n/a	150 mm	25
6″	**eWB0342-eM-39-NAT**	ePB-6/150-25-R.12-eM-39-NAT	eM-39-NAT	Low Profile, No H-bar	150mm	25
6″	**eWB0135-x-y**	ePB-6/150-12-x-y	eM-01-BLK, eM-08-y, eM-56-NAT	ePB-6/150-12-N-x-y	150 mm	12
6″	**eWB0359-x-y**	ePB-6/150-15-x-y	eM-01-BLK, eM-08-y	Short length cassette, standard slots	150mm	15
6″	**eWB0416-x**	ePB-6/150-18-x-y	eM-01-BLK, eM-08-y	ePB-6/150-18-N-x-y	150mm	18
6″	**eWB0417-eM-47-BLK**	ePB-6/150-18-R.1-eM-47-BLK	eM-47-BLK	ePB-6/150-18-R.1-N-eM-47-BLK	150mm	18
6″	**eWB0372-eM-39-NAT**	ePB-6/150-20-R.1-eM-39-NAT	eM-39-NAT	n/a	150mm	20
6″	**eWB0495-eM-47-BLK**	ePB-6/150-25-R.16-eM-47-BLK	eM-47-BLK	ePB-6/150-25-R.16-N-eM-47-BLK	150mm	25
6″	**eWB0537-eM-157-x**	ePB-6/150-25-R.21-eM-157-x	eM-157-x	Square top corner	150mm	25
6″	**eWB0554-eM-157-x**	ePB-6/150-25-R.23-eM-157-x	eM-157-x	Chamfered top corners	150mm	25
6″	**eWB0663-eM-39-NAT**	ePB-6/150-25-R.27-eM-39-NAT	eM-39-NAT	n/a	150mm	25
6″	**eWB0802-x**	ePB-6/150-25-R.46-N-X(PEEK)	eM-47, eM-170	Notch is Standard	150mm	25
6″	**eWB0745-eM-01-BLK**	ePB-6/150-25-R.35-N-eM-01-BLK	eM-01-BLK	n/a	150mm	25
159 mm	**eWB0207-eM-47-BLK**	ePB-6/159-25-eM-47-BLK	eM-47-BLK	ePB-6/159-25-N-eM-47-BLK	159 mm	25
159 mm	**eWB0208-eM-39-NAT**	ePB-6/159-25-R.1-eM-39-NAT	eM-39-NAT	ePB-6/159-25-R.1-N-eM-39-NAT	159 mm	25
159 mm	**eWB0575-eM-22-BLK**	ePB-6/159-12-R.6-eM-22-BLK	eM-22-BLK	ePB-6/159-12-R.6-N-eM-22-BLK	159 mm	12

Material code info ("x" in P/N):

Material	Code	SR
Conductive Polypropylene (Black color only)	eM-01-BLK	10e4-10e5
Polypropylene ("-y" Multiple Color Options)	eM-08-y	n/a
PFA (No color option)	eM-39-NAT	n/a
PP+PTFE+ CF (Dark Grey color only)	eM-45-BLK	10e4-10e10

Material	Code	SR
PEEK + CF (No color option)	eM-47-BLK	≤10e9
PVDF (Natural color only)	eM-56-NAT	n/a
Polycarbonate +CF	eM-157-x	10e4-10e7

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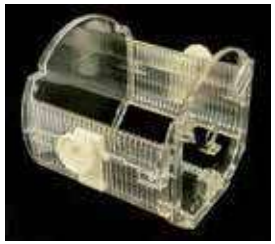
PROCESS BOATS (continued)

8" Process Boats:

Wafer Size	ePAK Order Code	ePAK P/N Description	Materials Available	Notes and/or Alternative ePAK P/N (-N) =with Notch Option (-W) =with Window Option (-H) =with Handle Option	Internal Diameter	Slots
8"	**eWB0045-eM-45-BLK**	ePB-8/200-25-eM-45-BLK	eM-45-BLK	n/a	200 mm	25
8"	**eWB0090-x-y**	ePB-8/200-25-R.2-x-y	eM-01-BLK, eM-08-y, eM-56-NAT	n/a	200 mm	25
8"	**eWB0182-x-y**	ePB-8/200-13-x	eM-01-BLK, eM-08-y, eM-56-NAT	n/a	200 mm	13
8"	**eWB0220-eM-39-NAT**	ePB-8/200-25-R.6-eM-39-NAT	eM-39-NAT	n/a	200 mm	25
8"	**eWB0382-eM-47-BLK**	ePB-8/200-25-R.9-eM-47-BLK	eM-47-BLK	ePB-8/200-25-R.9-H-eM-47-BLK	200 mm	25
8"	**eWB0385-eM-39-NAT**	ePB-8/200-25-R.10-eM-39-NAT	eM-39-NAT	Low Profile	200 mm	25
8"	**eWB0456-eM-157-x**	ePB-8/200-25-R.12-eM-157-x	eM-157-x	RFID option	200mm	25
8"	**eWB0533-eM-47-BLK**	ePB-8/200-25-R.13-eM-47	eM-47-BLK	eWB0382 but without H-Bar flanges	200mm	25
8"	**eWB0559-eM-170-BLK**	ePB-8/200-25-R.14-eM-170	eM-170-BLK	ePB-8/200-25-R.14-H-eM-170-BLK	200mm	25
8"	**eWB0548-eM-157-x**	ePB-8/203-13-eM-157-x	eM-157-x	RFID option	203mm	13
8"	**eWB0722/eWB0726/eWB0727**	ePB-8/200-25-R.21/R.23/R.24-X	eM-47, eM-170	RFID option	200mm	25



12" Process Boats:

12"	**eWB0519-ASSY-X**	ePB-12/300-25-ASSY-X	eM-175-CLR/eM-123-NAT	RFID option	300mm	25

Material code info: ("x" in P/N):

Material	Code	SR	Material	Code	SR
Conductive Polypropylene (Black color only)	eM-01-BLK	10e4-10e5	PEEK + CF (No color option)	eM-47-BLK	≤10e9
Polypropylene ("-y" Multiple Color Options)	eM-08-y	n/a	PVDF (Natural color only)	eM-56-NAT	n/a
PFA (No color option)	eM-39-NAT	n/a	Polycarbonate	eM-175-CLR	n/a
PP+PTFE+ CF (Dark Grey color only)	eM-45-BLK	10e4-10e10	Polycarbonate +CF	eM-157-x	10e4-10e7

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PROCESS BOAT STORAGE BOXES

- Storage Boxes are Stackable
- Available in many material options:
  - eM-01-BLK is equivalent to Entegris® Stat-Pro® 100 (PP + CP) material*
  - eM-08-NAT is natural PP material with many color options
  - eM-46-BLK is equivalent to Entegris® Stat-Pro® 175 (PP + CF) material*
  - *(PP = Polypropylene, CF=Carbon Fiber, CP=Carbon Powder, PTFE= Polytetrafluoroethylen

Product info:

Wafer Size	ePAK Order Code	ePAK P/N Description	Materials Available	Compatible with ePAK Process Cassettes
5″	**eWB0078-ASSY-#**	ePBX-5/125-ASSY-#		eWB0088-x-y, eWB0114-x-y
5″	**eWB0127-ASSY-#**	ePBX-5/125-R.1-ASSY-#		eWB0088-x-y, eWB0114-x-y
5″	**eWB0097-ASSY-#**	ePBX-5/125-2-ASSY-#		eWB0088-x-y, eWB0114-x-y eWB00300-x-y (BOX HOLDS 2 BOATS)
6″	**eWB0070-ASSY-#**	ePBX-6/150-ASSY-#		eWB0051-x-y, eWB0052-x-y, eWB0135-x-y
6″	**eWB0073-ASSY-#**	ePBX-6/150-R.1-ASSY-#		eWB0051-x-y, eWB0052-x-y, eWB0135-x-y
6″	**eWB0111-ASSY-#**	ePBX-6/150-2-ASSY-#		eWB0051-x-y, eWB0052-x-y, eWB0135-x-y (BOX HOLDS 2 BOATS)
6″	**eWB0099-ASSY-#**	ePBX-6/150-R.3-ASSY-#		eWB0051-x-y, eWB0052-x-y, eWB0135-x-y
6″	**eWB0159-ASSY-#**	ePBX-6/150-R.5-ASSY-#		eWB0051-x-y, eWB0052-x-y, eWB0135-x-y
6″	**eWB0336-ASSY-#**	ePBX-6/150-R.10-ASSY-#		eWB0051-x-y, eWB0052-x-y, eWB0135-x-y
6″	**eWB0358-ASSY-#**	ePBX-6/150-R.11-ASSY-#		eWB0359-x-y
6″	**eWB0480-ASSY-#**	ePBX-6/150-2-R.4-ASSY-#		
159 mm	**eWB0213-ASSY-#**	ePBX-6/159-ASSY-#		eWB0207-eM-47-BLK, eWB0208-eM-39-NAT

***Please use Storage Box ePBX-8/200-R.1-eM-46 for Process Cassette PN: eWB0182-x-y (ePB-8/200-13-x) Please confirm with your sales person.*

Material code info:

Material	Code	SR
Conductive Polypropylene (Black only)	eM-01-BLK	10e4-10e5
Polypropylene (Multiple Color Options →)	eM-08-NAT	n/a
PP+CF (Black only)	eM-46-BLK	10e4-10e10
PC+CF	eM-157-BLK	10e4-10e7

Color code info	NAT = Natural BLU = Blue GRN = Green RED = Red YLW = Yellow

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PROCESS BOAT STORAGE BOXES

(CONTINUED.)

- Storage Boxes are Stackable
- Available in many material options:
  - eM-01-BLK is equivalent to Entegris® Stat-Pro® 100 (PP + CP) material*
  - eM-08-NAT is natural PP material with many color options
  - eM-46-BLK is equivalent to Entegris® Stat-Pro® 175 (PP + CF) material*
  - *(PP = Polypropylene, CF=Carbon Fiber, CP=Carbon Powder, PTFE= Polytetrafluoroethylene)

Product info:

Wafer Size	ePAK Order Code	ePAK P/N Description	Materials Available	Compatible with ePAK Process Cassettes
8″	**eWB0094-ASSY-#**	ePBX-8/200-ASSY-#	eM-01-BLK, eM-08-X, eM-46-X	eWB0045-x-y, eWB0090-x-y
8″	**eWB0100-ASSY-#**	ePBX-8/200-R.1-ASSY-# **	eM-01-BLK, eM-08-X, eM-46-X	eWB0045-x-y, eWB0090-x-y, eWB0182-x-y** Option eWB0534SH (shelf) to load 6″ PB (eWB0051, eWB0052, eWB0135 & eWB0537)
8″	**eWB0221-ASSY-#**	ePBX-8/200-R.3-ASSY-#	eM-01-BLK, eM-08-X, eM-46-X	eWB0045-x-y, eWB0090-x-y,
8″	**eWB0338-ASSY-#**	ePBX-8/200-R.6-ASSY-#	eM-01-BLK, eM-08-X, eM-46-X	eWB0045-x-y, eWB0090-x-y,
8″	**eWB0367-ASSY-#**	ePBX-8/200-R.7-ASSY-#	eM-46-X, eM-157-X	eWB0045-x-y, eWB0090-x-y, Option eWB0534SH (shelf) to load 6″ PB (eWB0051, eWB0052, eWB0135 & eWB0537)
8″	**eWB0451-ASSY-#**	ePBX-8/200-R.10-ASSY-#	eM-46-X, eM-157-X	Option eWB0534SH (shelf) to load 6″ PB (eWB0051, eWB0052, eWB0135 & eWB0537)
8″	**eWB0755-ASSY-#**	ePBX-8/200-R.16-ASSY-#	eM-157, eM-186, eM-61	For Standard 8inch Process Boat

*** eWB0100 have Cushion(eWB0100CU/eWB0804CU) option

Material code info:

Material	Code	SR
Conductive Polypropylene (Black only)	eM-01-BLK	10e4-10e5
Polypropylene (Multiple Color Options →)	eM-08-NAT	n/a
PP+CF (Black only)	eM-46-BLK	10e4-10e10
PC+CF	eM-157-BLK	10e4-10e7

Color code info	NAT = Natural BLU = Blue GRN = Green RED = Red YLW = Yellow

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ENVELOPES FOR STORAGE BOXES

- Envelopes are manufactured using clear PVC
- Snaps are manufactured using white Nylon (eM-64)

6″

8″

Envelopes info:

ePAK Order code	Description	Anti-Static	Fits Boxes:
eOP0167-ASSY-1	2"/3"/4" Envelope-ASSY-1	YES	eWB0095, eWB0123, eWB0124, eWB0260/Competitor
eOP0167-ASSY-2	2"/3"/4" Envelope-ASSY-2	NO	eWB0095, eWB0123, eWB0124, eWB0260/Competitor
eOP0168-ASSY-1	5" Envelope-ASSY-1	YES	eWB0078, eWB0127/Competitor
eOP0168-ASSY-2	5" Envelope-ASSY-2	NO	eWB0078, eWB0127/Competitor
eOP0169-ASSY-1	6" Envelope-ASSY-1	YES	eWB0073, eWB0099, eWB0159, eWB0185/Competitor
eOP0169-ASSY-2	6" Envelope-ASSY-2	NO	eWB0073, eWB0099, eWB0159, eWB0185/Competitor
eOP0197-ASSY-1	6" Envelope R.1-ASSY-1	YES	eWB0073, eWB0099, eWB0159, eWB0185/Competitor
eOP0197-ASSY-2	6" Envelope R.1-ASSY-2	NO	eWB0073, eWB0099, eWB0159, eWB0185/Competitor
eOP0256-ASSY-1	6" Envelope R.2-ASSY-1	YES	eWB0073, eWB0099, eWB0159, eWB0185/Competitor
eOP0256-ASSY-2	6" Envelope R.2-ASSY-2	NO	eWB0073, eWB0099, eWB0159, eWB0185/Competitor
eOP0185-ASSY-1	8" Envelope-ASSY-1	NO	eWB0094, eWB0221/Competitor

Material code options:

Material	Code	SR
White Nylon (Snaps)	eM-64	n/a
Clear PVC	eM-68	n/a
Anti-Static Clear PVC	eM-66	<10e11

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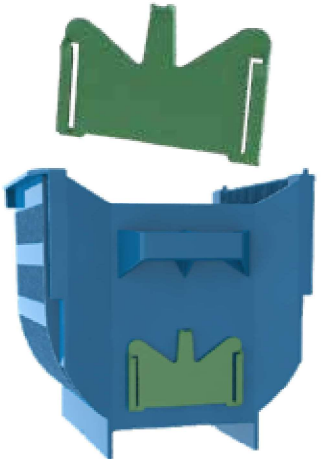
BADGE HOLDERS & CLIPS

BADGE HOLDER
Welded to Storage box

CARD HOLDER
Attached to
mWB0070

eCH6-A
Attached to Process Boat

ePB-4/100-Holder-x
& eV8-78x25-Carrier-x
Attached to 4" Process Boat



CARD HOLDER-R.1
Welded to
Process Boat

mOP0162 Assembly
(Attached to Box Lid)

mOP0370
(Attached to Box Lid)

Order Code	Product Description	Application
eOP0162(P)-eM-34-BLK or eM-08-y	Storage Box Clip (Pedestal)-eM-34	Storage Box
eOP0162(S)-eM-34-BLK or eM-08-y	Storage Box Clip (Spring)-eM-34	Storage Box
eOP0163-eM-08-y	BADGE HOLDER	Multiple Application
eOP0184-eM-01-BLK	CARD HOLDER	mWB0070
eOP0392-eM-01-BLK/eM-46-BLK	CARD HOLDER-R.1	Multiple Application
eOP0206-(eM-01-BLK or eM-08-y)	eCH6-A	6" Process Cassettes (except PFA)
eOP0370-eM-73	Storage Box Clip	mWB0078
eOP0718-x	6" Paper Holder-x	mWB0073
eOP0813-x & eVT1898-x	ePB-4/100-Holder-x & eV8-78x25-Carrier-x	4" Process Cassette

Color code (-y in P/N)	NAT = Natural BLU = Blue GRN = Green RED = Red YLW = Yellow

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HANDLES FOR PROCESS BOATS

eOP0171

eOP0243

eOP0179

eOP0202-8-ASSY-2

eOP0202-8-ASSY-3

For Boat sizes	ePAK Order code	Description	Handle Style	Compatible Process Boats
2″	**eOP0171-2-ASSY-1**	2″ HANDLE ASSY-1	Squeeze with lock bar	eWB0031, eWB0316
2.5″	**eOP0171-2.5-ASSY-1**	2.5″ HANDLE ASSY-1	Squeeze with lock bar	eWB0405
3″	**eOP0171-3-ASSY-1**	3″ HANDLE ASSY-1	Squeeze with lock bar	eWB0092, eWB0096, eWB0306
4″	**eOP0171-4-ASSY-1**	4″ HANDLE ASSY-1	Squeeze with lock bar	eWB0049, eWB0277, eWB0308, eWB0309
5″	**eOP0171-5-ASSY-1**	5″ HANDLE ASSY-1	Squeeze with lock bar	eWB0088, eWB0114, eWB00229, eWB00300
5″	**eOP0179-5-ASSY-1**	5″ HANDLE R.1 ASSY-1	Slingshot	eWB0088, eWB0114, eWB00229, eWB00300
6″	**eOP0171-6-ASSY-1**	6″ HANDLE ASSY-1	Squeeze with lock bar	eWB0051, eWB0052, eWB0101, eWB0135, eWB0153, eWB0188, eWB0304, eWB0307, eWB0327,
6″	**eOP0179-6-ASSY-1**	6″ HANDLE R.1 ASSY-1	Slingshot	eWB0051, eWB0052, eWB0101, eWB0135, eWB0153, eWB0188, eWB0304, eWB0307, eWB0327,
6″	**eOP0243-eM-39-NAT**	6″ HANDLE-R.3-eM-39-NAT	Squeeze with support bar	eWB0051, eWB0052, eWB0101, eWB0135, eWB0153, eWB0188, eWB0304, eWB0307, eWB0318, eWB0327
159mm	**eOP0171-159-ASSY-1**	159 HANDLE ASSY-1	Squeeze with lock bar	eWB0207, eWB0208
8″	**eOP0202-8-ASSY-2**	8″ HANDLE ASSY-2	Squeeze with lock bar	eWB0045, eWB0090, eWB0182, eWB0220, eWB0380, eWB0382,
8″	**eOP0202-8-ASSY-3**	8″ HANDLE ASSY-3	Squeeze with lock bar	eWB0385

Material codes		
Material	**Code**	**SR**
PFA	eM-39-NAT	n/a

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"COIN STYLE" SINGLE WAFER SHIPPERS*

Wafer Size	ePAK Order Code	ePAK Description	Internal Diameter	Std Pack Quantity
1" (25mm)	**eWB0091-ASSY-#**	eCT1-25-ASSY-#	25.4 mm	100 /carton
1.5"(38mm)	**eWB0325-ASSY-#**	eCT1.5-38-ASSY-#	39.6 mm	100 /carton
2" (50mm)	**eWB0021-ASSY-#**	eCT2-50-ASSY-#	52 mm	100 /carton
2.5" (63mm)	**eWB0328-ASSY-#**	eCT2.5-63-ASSY-#	65.5 mm	100 /carton
3" (76mm)	**eWB0022-ASSY-#**	eCT3-76-ASSY-#	78.6 mm	100 /carton
3" (76mm) (3)	**eWB0509-ASSY-#**	eCT3-76-R.1-ASSY-#	76.7mm	100 /carton
3" (76mm)	**eWB0572-ASSY-#**	eCT3-76-R.3-ASSY-#	78.6 mm	100 /carton
3.25" (82mm)	**eWB0329-ASSY-#**	eCT3.25-82-ASSY-#	85 mm	100 /carton
3.54" (90mm)	**eWB0330-ASSY-#**	eCT3.54-90-ASSY-#	92 mm	100 /carton
4" (100mm)	**eWB0024-ASSY-#**	eCT4-100-ASSY-#	104 mm	100 /carton
4" (100mm) (1)	**eWB0192-ASSY-#**	eCT4-100-R.2-ASSY-#	104 mm	100 /carton
4" (100mm) (3)	**eWB0404-ASSY-#**	eCT4-100-R.3-ASSY-#	100.6 mm	100 /carton
4" (100mm)	**eWB0573-ASSY-#**	eCT4-100-R.4-ASSY-#	104 mm	100 /carton
5" (125mm)	**eWB0060-ASSY-#**	eCT5-125-ASSY-#	127 mm	100 /carton
6" (150mm)	**eWB0025-ASSY-#**	eCT6-150-ASSY-#	152 mm	100 /carton
6" (150mm) (1)	**eWB0281-ASSY-#**	eCT6-150-R.1-ASSY-#	152 mm	100 /carton
6" (150mm) (2)	**eWB0320-ASSY-#**	eCT6-150-R.2-ASSY-#	152 mm	100 /carton
6" (150mm)	**eWB0574-ASSY-#**	eCT6-150-R.4-ASSY-#	152 mm	100 /carton
6"(153mm/155mm)	eWB0796-ASSY-#	eCT-6-153/155-ASSY-#	153.8mm/156mm	100/carton

Notes:
(1) Positive Locking Lid
(2) Positive Locking Lid, Larger Label Area
(3) Designed for Thin / Fragile wafers

Material code options:

Material	Code	SR
Natural PP	eM-08-NAT	n/a
LDPE (spring option only)	eM-11-NAT	n/a
Conductive PP	eM-01-BLK	10e4-10e5

(*PATENT PENDING)

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External packaging solution for our popular 2, 3, 4, and 6 inch Coin Style Single Wafer Shippers

Product Information:

- For the 2" Coin Style Shippers: 5 pcs per layer/15 pcs per box
- For the 3" Coin Style Shippers: 3 pcs per layer/ 9 pcs per box
- For the 4" Coin Style Shippers: 2 pcs per layer/ 6 pcs per box
- For the 6" Coin Style Shippers: 3 pcs per layer/ 9 pcs per box

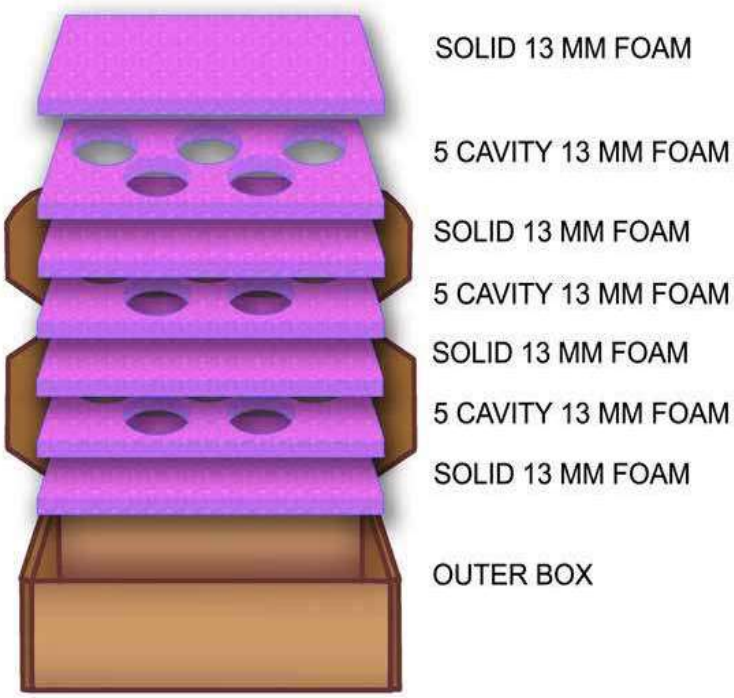
Each MASTERPAK™ contains:

- 1 pcs - cardboard outer box
- 3 pcs - Antistatic PE foam with cavities for shippers
- 4 pcs - Antistatic PE foam cushion layer-Solid

Ordering Information:

Wafer Size	ePAK Order Code	ePAK Description	Shippers per box	Foam Thickness
2″	**eMP0001**	MASTERPAK-2	15	13 mm
3″	**eMP0002**	MASTERPAK-3	9	13 mm
4″	**eMP0003**	MASTERPAK-4	6	13 mm
6″	**eMP0010**	MASTERPAK-6	9	13 mm

SHOWING: MASTERPAK-2



Minimum Order Quantity:

20 Masterpaks™

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SINGLE WAFER SHIPPERS

(INJECTION MOLDED)

Clamshell Style Shippers - Hinged Single wafer shippers

Wafer Size	ePAK Order Code	ePAK Description	Internal Diameter	Internal Height	Std Pack Quantity
6" (150mm)	**eWB0017-ASSY-#**	eCT6-150-0.7-ASSY-#	150 mm	0.7 mm	15/carton
8" (200mm)	**eWB0016-ASSY-#**	eCT8-200-0.7-ASSY-#	200 mm	0.7 mm	10/carton

Material code options:

Material	Code	SR
Clear PC	eM-12-TRA	n/a
Conductive PC	eM-22-BLK	10e2-10e6

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SINGLE WAFER SHIPPERS

(INJECTION MOLDED)

300mm

450mm

Coinstack Style Shippers – Single wafer shippers (Base with separate cover)

Wafer Size	ePAK Order Code	ePAK Description	Internal Diameter	Internal Height	Std Pack Quantity
12" (300mm)	**eWB0053-ASSY-#**	eCT12-300-0.8-ASSY-#	300 mm	0.8 mm	10/carton
18" (450mm)	**eWB0210-ASSY-#**	eCT-450-0.7-ASSY-#	450 mm	0.7 mm	10/carton

Material code options:

Material	Code	SR
Natural PP	eM-08-NAT	n/a
Conductive PP	eM-01-BLK	10e4-10e5

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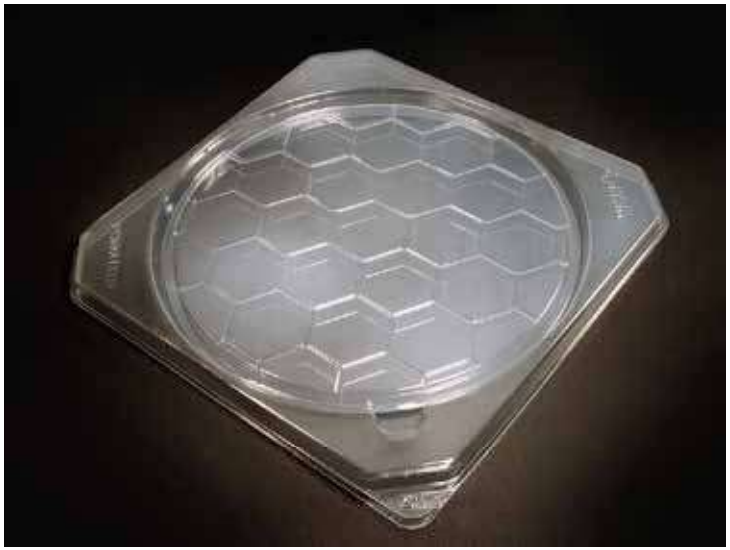
SINGLE WAFER SHIPPERS

(VACUUM-FORMED)



Vacuum Formed Shippers – Single wafer shippers

Wafer Size	ePAK Order Code	ePAK Description	Internal Diameter	Std Pack Quantity
8”(200mm)	**eVT1605-x**	eV10-8/200-ASSY-#	200 mm	40/carton
12"(300mm)	**eVT1415-x**	eV9-12/300-X	300 mm	20/carton

Material code options: (–x in P/N):

Material	Code	SR
Proprietary conductive PS	eM-20-BLK	10e4-10e11
Clear PS material	eM-21-CLR	N/A
Anti-Static coated PS	eM-23	10e8-10e12
Clear, A/S coated, APET	eM-25	10e7-10e11

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WAFER STIFFENERS

Wafer Stiffener – Support system for ultra-thin, brittle wafers

- Proprietary, ultra-pure material
- Adds rigidity to sensitive ultra-thin wafers

Wafer Size	ePAK Order Code	ePAK Description	Stiffener Diameter	Stiffener Thickness	Std Pack Quantity
1"	**eVT1128-x**	eWV1-25-0.25-x	25 mm	0.25 mm	100/pack
1"	**eVT1505-x**	eWV1-25-0.4-x	25 mm	0.40 mm	100/pack
2"	**eVT0171-x**	eWV2-50-0.25-x	50 mm	0.25 mm	100/pack
2"	**eVT0190-x**	eWV2-50-0.4-x	50 mm	0.40 mm	100/pack
3"	**eVT0191-x**	eWV3-76-0.25-x	76 mm	0.25 mm	100/pack
3"	**eVT0192-x**	eWV3-76-0.4-x	76 mm	0.40 mm	100/pack
3"	**eVT0193-x**	eWV3-76-0.5-x	76 mm	0.50 mm	100/pack
4"	**eVT0194-x**	eWV4-100-0.4-x	100 mm	0.40 mm	50/pack
4"	**eVT0195-x**	eWV4-100-0.6-x	100 mm	0.60 mm	50/pack
6"	**eVT0196-x**	eWV6-150-0.4-x	150 mm	0.40 mm	50/pack
6"	**eVT0197-x**	eWV6-150-0.6-x	150 mm	0.60 mm	50/pack
6"	**eVT0206-x**	eWV6-150-0.8-x	150 mm	0.80 mm	50/pack
8"	**eVT0198-x**	eWV8-200-0.6-x	200 mm	0.60 mm	50/pack
8"	**eVT0207-x**	eWV8-200-0.8-x	200 mm	0.80 mm	50/pack
12"	**eVT0199-x**	eWV12-300-0.8-x	300 mm	0.80 mm	50/pack

Material code info (–x in P/N):

Material	Code	SR
Proprietary conductive PS	eM-20-BLK	10e4-10e11

(*PATENT PENDING)

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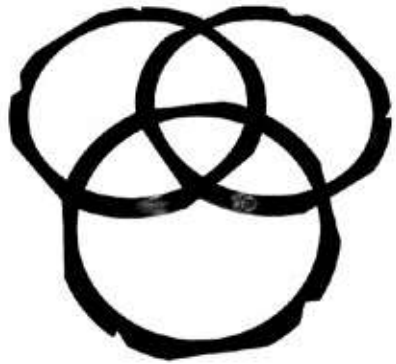
PLASTIC FLEX FRAMES



- Designed for 100, 125, 150, 200 and 300 mm wafers
- Low cost alternative to metal flex frames
- Designed to be used one time and then discarded
- Of special interest to those who ship wafers to customers on flex frames
  - No need to bear freight cost to return heavy metal frame
  - No need for cleaning metal frame before reuse
- Call for further details

Plastic Flex Frames – For shipping wafers mounted on tape

ePAK Order Code	ePAK Description	Flat to Flat	Internal Diameter	Internal Height	Std Pack Quantity	Available	*Fits into Flex Frame Shipper*
eOP0863-eM-72	eFF5-125-1.8-eM-72	184mm	160mm	1.80mm	200/carton	now	
eOP0043-eM-59	eFF6-150-2.5-eM-59	217mm	194 mm	2.50 mm	200 /carton	NOW	eVT0415-x
eOP0067-eM-59	eFF6-150-2.5-R.1-eM-59	217mm	194 mm	2.50 mm	200 /carton	NOW	eVT0415-x
eOP0209-eM-89	eFF6-150-2.2-R.3-eM-89	215.9mm	185 mm	2.2 mm	200 /carton	NOW	eVT0415-x
eOP0304-eM-59	eFF6-150-2-R.6-eM-59	195mm	174 mm	2.0 mm	200 /carton	NOW	eVT1479-x
eOP0319-eM-59	eFF6-150-2.0-R.7-eM-59	212mm	194 mm	2.0 mm	200 /carton	NOW	eVT0302 & eVT1395
eOP0437-eM-59	eFF6-150-2.2-R.8-eM-59	216mm	185 mm	2.2 mm	200 /carton	NOW	eVT0415-x
eOP0091-eM-59	eFF-200-2.0-R.2-eM-59	276mm	250 mm	2.0 mm	200 /carton	NOW	eVT0320-x
eOP0064-eM-59	eFF8-200-2.4-eM-59	275mm	250 mm	2.40 mm	200 /carton	NOW	eVT0320-x
eOP0132-eM-59	eFF8-200-2.6-eM-59	276mm	250 mm	2.60 mm	200 /carton	NOW	eVT0320-x
eOP0494-eM-59	eFF8-200-2.6-R.3-eM-59	266mm	242 mm	2.60 mm	200 /carton	NOW	eVT0377-x
eOP0793-eM-59	eFF8-200-2.6-R.6-eM-59	276mm	250mm	2.60mm	200 /carton	NOW	eVT0320-x
eOP0137-eM-59	eFF12-300-3.5-eM-59	380mm	350 mm	3.5 mm	200 /carton	NOW	eVT0287-x

Material code info:

Material	Code	SR
PPS Glass Reinforced	eM-59-BLK	n/a
SAN	eM-89	n/a

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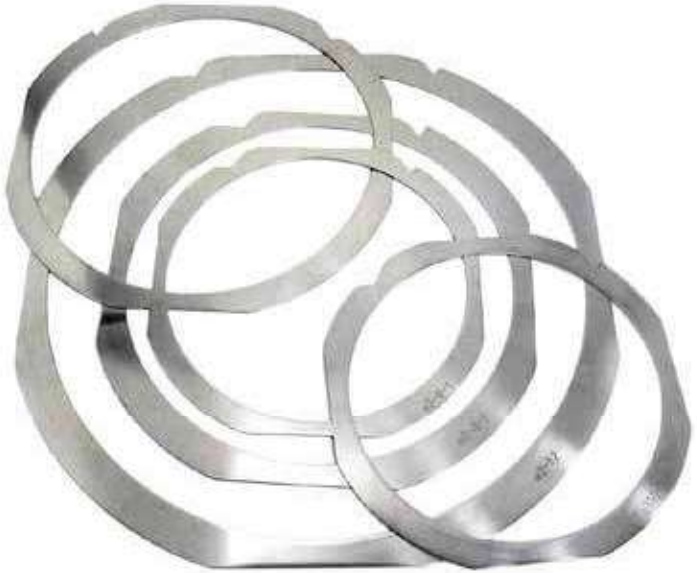
METAL FLEX FRAMES



- 410 SS / 420 SS
- 6 Inch and 8 Inch packed in carton quantities of 50
- 12 Inch packed in carton quantity of 25
- Other surface finishes available upon request
- Custom sizes and shapes available upon request

Metal Flex Frames – For shipping wafers mounted on tape

ePAK Order Code	ePAK Description	Flat to Flat	Internal Diameter	Internal Height	Std Pack Quantity
eOP0309	eMF-DTF-2-6-1	212 mm	194 mm	1.22 mm	50 /carton
eOP0310	eMF-350-103	215.9 mm	192.5 mm	1.22 mm	50 /carton
eOP0312	eMF-350-104	266.7 mm	242.32 mm	1.22 mm	50 /carton
eOP0311	eMF-DTF-2-8-1	276 mm	250 mm	1.22 mm	50 /carton
eOP0313	eMF-DTF-2-12	380 mm	350 mm	1.52 mm	25 /carton
eOP0574	eMF-450	556 mm	506 mm	2.0 mm	25/carton

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SINGLE FLEX FRAME SHIPPERS

- Designed for 100, 125, 150, 200 & 300mm wafers
- Available in uncoated, anti-static coated or conductive PS materials
- Call for further details.

Clamshell ("C" Style)

Plastic Flex Frame Shippers: For shipping flex frames with mounted wafers

ePAK Order Code	ePAK Description	Std Pack Quantity	Frame dims Flat to Flat	Shipper Style	Frame Style
eVT0302-x	eFS6-150-R.1-x	50 /carton	212 mm	C	DISCO DTF 2-6-1
eVT0303-x	eFS6-150-R.2-x	50 /carton	195 mm	C	DISCO DTF 2-6
eVT0415-x	eFS6-150-R.3-x	50 /carton	216 mm	C	K&S 350-103
eVT1384-x	eFS6-150-R.5-x	50 /carton	216 mm	C	K&S 350-103
eVT1395-ASSY-#	eFS6-150-R.6-ASSY-#	50 /carton	212 mm	T	DISCO DTF 2-6-1
eVT1479-x	eFS6-150-R.9-x	50 /carton	195 mm	C	DISCO DTF 2-6
eVT2253-x	eFS6-150-R.12-x	50 /carton	212 mm	C	DISCO DTF 2-6-1
eWB0781-X	eFS6-212X212-1-eM-22	20/carton	212mm	T	DISCO DTF-2-6-1
eVT0304-x	eFS8-200-R.1-x	25 /carton	Round Frame	C	Round Frame
eVT0320-x	eFS8-200-R.2-x	20 /carton	276 mm	C	DISCO DTF 2-8-1
eVT0377-x	eFS8-200-R.3-x	15 /carton	266 mm	C	K&S 350-104
eVT0380-x	eFS8-200-R.4-x	50 /carton	266 mm	C	K&S 350-104
eVT0972-x	eFS8-200-R.5-x	25 /carton	276 mm	C	DISCO DTF 2-8-1
eVT1650-ASSY-#	eFS8-200-R.8-ASSY-#	20 /carton	276 mm	T	DISCO DTF 2-8-1
eVT0287-x	eFS12-300-A-x	10 /carton	380 mm	C	SEMI G74 & G87
eVT0305-ASSY-#	eFS12-300-R.1-ASSY-#	10 /carton	380 mm	T	SEMI G74 & G87
eVT1607-X	eFS12-300-R.2-X	10 /carton	380 mm	C	SEMI G74 & G87
eVT1663-x	eFS12-300-R.3-x	10 /carton	380 mm	C	SEMI G74 & G87
eVT1723-x	eFS18-450-x	10 /carton	556 mm	T	

Stacked Trays ("T" Style)

Material code options: (–x in P/N):

Material	Code	SR
Proprietary conductive PS	eM-20-BLK	10e4-10e11
Clear PS material	eM-21-CLR	N/A
Anti-Static coated PS	eM-23	10e9-10e11

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FLEX FRAME MULTI-SHIPPERS

Plastic Flex Frame Multi-Shippers – For the vertical shipping of multiple Flex Frames with mounted wafers

Wafer Size	Frames Held	ePAK Order Code	ePAK Description	Flex Frame Height (Manuf.)
6 Inch	25 pcs	**mWB0214-ASSY-1** (Conductive PP)	eFS6-150-25-R.1-ASSY-1	212 mm (DISCO outline)
	25 pcs	**mWB0214-ASSY-3** (Natural PP)	eFS6-150-25-R.1-ASSY-3	212 mm (DISCO outline)
	25 pcs	**mWB0214-ASSY-2** (Conductive PP)	eFS6-150-25-R.1-ASSY-2	216 mm (K&S outline)
	25 pcs	**mWB0214-ASSY-4** (Natural PP)	eFS6-150-25-R.1-ASSY-4	216 mm (K&S outline)
8 Inch	25 pcs	**eWB0152-ASSY-1** (Natural PP)	eFS8-200-25-R.1-ASSY-1	276 mm (DISCO outline)
	25 pcs	**eWB0152-ASSY-3** (A/S impregnated Clear PP)	eFS8-200-25-R.1-ASSY-3	276 mm (DISCO outline)
	25 pcs	**eWB0152-ASSY-2** (Natural PP)	eFS8-200-25-R.1-ASSY-2	266 mm (K&S outline)
	25 pcs	**eWB0152-ASSY-4** (A/S impregnated Clear PP)	eFS8-200-25-R.1-ASSY-4	266 mm (K&S outline)
	25 pcs	**eWB0152-ASSY-5** (Conductive PP)	eFS8-200-25-R.1-ASSY-5	276 mm (DISCO outline)
	25 pcs	**eWB0152-ASSY-6** (Conductive PP)	eFS8-200-25-R.1-ASSY-6	266 mm (K&S outline)
	25 pcs	**eWB0152-ASSY-7** (Cond. PP w/ eM-50 Spring)	eFS8-200-25-R.1-ASSY-7	276 mm (DISCO outline)
	25 pcs	**eWB0152-ASSY-8** (Cond. PP w/ eM-50 Spring)	eFS8-200-25-R.1-ASSY-8	266 mm (K&S outline)
	25 pcs	**eWB0591-ASSY-1** (Conductive PP)	eFS8-200-25-R.3-ASSY-1	276 mm (DISCO outline)
	25 pcs	**eWB0591-ASSY-2** (Conductive PP)	eFS8-200-25-R.3-ASSY-2	276 mm (DISCO outline)
	25 pcs	**eWB0591-ASSY-3** (Conductive PP)	eFS8-200-25-R.3-ASSY-3	266 mm (K&S outline)
12 Inch	13 pcs	**eWB0195-ASSY-1** (Natural PP w/ 1.5 Spring)	eFS12-300-13-ASSY-1	380 mm (SEMI G74) Metal
	13 pcs	**eWB0195-ASSY-2** (Natural PP w/ 3.5 Spring)	eFS12-300-13-ASSY-2	380 mm (SEMI G87) Plastic
	13 pcs	**eWB0195-ASSY-3** (Conductive PP w/ 1.5 Spring)	eFS12-300-13-ASSY-3	380 mm (SEMI G74) Metal
	13 pcs	**eWB0195-ASSY-4** (Conductive PP w/ 3.5 Spring)	eFS12-300-13-ASSY-4	380 mm (SEMI G87) Plastic

150mm

200mm

300mm

Material code options:

Material	Code	SR
Conductive PP	eM-01-BLK	10e4-10e5
Natural PP	eM-50-NAT	N/A

Protective shipping OverPAKS™ available…see products

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FLEX FRAME CANISTERS

Canister for 212mm & 216mm frames (150mm)

Canisters for 266mm & 276mm frames (200mm)

Canister for 380mm frames (300mm)

Plastic Flex Frame Canisters – For horizontal/coinstack shipping of multiple Flex Frames with mounted wafers

Wafer Size	Internal Height	ePAK Order Code	ePAK Description	Flex Frame Dim (Flat to Flat) (Manuf.)
6″ (150mm)	40mm	**eWB0323-ASSY-1**	eFSC6-150-40-ASSY-1	212mm (DISCO outline)
6″ (150mm)	40mm	**eWB0323-ASSY-2**	eFSC6-150-40-ASSY-2	216mm (K&S outline)
8″ (200mm)	81mm	**eWB0394-ASSY-1**	eFSC8-200-81-266-R.1-ASSY-1	266mm (K&S outline)
8″ (200mm)	81mm	**eWB0387-ASSY-1**	eFSC8-200-81-276-R.1-ASSY-1	276mm (DISCO outline)
8″ (200mm)*	48 mm	**eWB0587-ASSY-1**	FSC8-200-48-ASSY-1	276mm (DISCO outline)
12″ (300mm)	109mm	**eWB0448-ASSY-2**	eFSC12-300-109-R.2-ASSY-2	380mm

** "eLX" Style with reduced movement features.*

Material code options:

Material	Code	SR
Conductive PP	eM-01-BLK	10e4-10e5

- A range of cushion disks and separators are available. Please see next page.
- Protective shipping OverPAKS™ available…see products

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FLEX FRAME CANISTER ACCESSORIES

Cushion Disks – ESD sensitive Cushioning material for use with Canisters and Jars

Wafer Size	FITS CANISTER PN:	ePAK Order Code	ePAK Description	Foam Dim (Flat to Flat)	Foam Thickness	Std Pack Quantity
6″	eWB0323 (ALL ASSY)	**eFD0052-eM-04-H-PNK**	eFD-225-6-eM-04-H-PNK	225mm	6 mm	50/pack
8″	eWB0394	**eFD0083-eM-04-H-PNK**	eFD8-265/265-3-eM-04-H-PNK	266mm	3 mm	100/pack
8″	eWB0394	**eFD0084-eM-04-H-PNK**	eFD8-265/265-6-eM-04-H-PNK	266mm	6 mm	50/pack
8″	eWB0387	**eFD0058-eM-04-H-PNK**	eFD8-275/275-3-eM-04-H-PNK	276mm	3 mm	100/pack
8″	eWB0387	**eFD0059-eM-04-H-PNK**	eFD8-275/275-6-eM-04-H-PNK	276mm	6 mm	50/pack
12″	eWB0448	**eFD0081-eM-04-H-PNK**	eFD12-378/378-R.1-3-eM-04-H-PNK	378mm	3 mm	50/pack
12″	eWB0448	**eFD0080-eM-04-H-PNK**	eFD12-378/378-R.1-6-eM-04-H-PNK	378mm	6 mm	50/pack

Material code options:

Material	Code	SR
Closed-cell polyethylene	eM-04-H-PNK	10e5-10e11

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FLEX FRAME CANISTER ACCESSORIES

Separators: For use between wafers on frames

Wafer Size	FITS CANISTER PN:	ePAK Order Code	ePAK Description	Interleaf Dim (Flat to Flat)	Separator Thickness	Std Pack Quantity
Anti-static spun PO (Tyvek®)						
6"	eWB0323	**eIL0096-eM-03-A-WHT**	eIL-225-0.16-eM-03-A-WHT	225 mm	0.16 mm	250/pack
8"	eWB0394	**eIL0151-eM-03-A-WHT**	eIL8-265/265-0.16-eM-03-A-WHT	265 mm	0.16 mm	250/pack
8″	eWB0387	**eIL0102-eM-03-A-WHT**	eIL8-275/275-0.16-eM-03-A-WHT	275 mm	0.16 mm	250/pack
12″	eWB0448	**eIL0097-eM-03-A-WHT**	eIL12-398-0.16-eM-03-A-WHT	378mm	0.16 mm	250/pack
Separators- ESD PS (Smooth eM-20-BLK)						
8″	eWB0394	**eIL0149-eM-20-BLK**	eIL8-265/265-0.13-eM-20-BLK	265 mm	0.13 mm	250/pack
8″	eWB0387	**eIL0146-eM-20-BLK**	eIL8-275/275-0.13-eM-20-BLK	276 mm	0.13 mm	250/pack
12″	eWB0448	**eIL0147-eM-20-BLK**	eIL12-378/378-0.16-eM-20-BLK	378mm	0.16 mm	250/pack
Separators- ESD PS (Embossed eM-20-BLK)						
6″	eWB0323	**eIL0091-eM-20-BLK**	eIL-225-0.07-eM-20-BLK	225 mm	0.07 mm	250/pack
8″	eWB0387	**eIL0157-eM-20-BLK**	eIL8-275/275-0.13-EMBOSSED-eM-20-BLK	275 mm	0.13 mm	250/pack

Material code info:

Material	Code	SR
Anti-static spun PO (Tyvek®)	eM-03-A-WHT	10e6-10e11
Proprietary conductive PS	eM-20-BLK	10e4-10e11

Moisture Barrier Bags:

Wafer Size	FITS CANISTER PN:	ePAK Order Code	ePAK Description	Width (mm)	Length (mm)	Material Thickness	Std Pack Quantity
6"	eWB0323	**eOP0078-19-eM-41**	eBAG-330X380X0.08-eM-41	330	380	0.08 mm	500/carton
8"	eWB0394 & eWB0387	**eOP0690-eM-41**	eBAG-483X585X0.08-eM-41	483	585	0.08 mm	500/carton

Material code info:

Material	Code	SR
Metalized PET+PET+CPE	eM-41	10e6-10e11

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HOOP RINGS

Hoop Rings: (X) is material code, (Y) is color code

ePAK Order Code	ePAK Description	Diameter	Ring Height	Locator Notch	Standard Color	Std Pack Quantity
eOP0062-x-y	eHR-122/134-6-IN-X-Y	ID=122 mm	6 mm	No	Grey	200 /carton
eOP0063-x-y	eHR-122/134-6-OUT-X-Y	OD=134 mm	6 mm	No	Blue	200 /carton
eOP0051-x-y	eHR-140/152-6-IN-X-Y	ID=140 mm	6 mm	No	Grey	200 /carton
eOP0050-x-y	eHR-140/152-6-OUT-X-Y	OD=152 mm	6 mm	No	Blue	200 /carton
eOP0790-x-y	eHR-140/152-6-IN-R.1-X-Y	ID=140 mm	6 mm	No	Grey	200 /carton
eOP0791-x-y	eHR-140/152-6-OUT-R.1-X-Y	OD=152 mm	6 mm	No	Blue	200 /carton
eOP0842-x-y	eHR-140/152-6-IN-R.2-X-Y	ID=140 mm	6 mm	No	Black	200 /carton
eOP0841-x-y	eHR-140/152-6-OUT-R.2-X-Y	OD=152 mm	6 mm	No	Black	200 /carton
For 6 Inch/150mm:						
eOP0049-x-y	eHR-170/186-6-IN-X-Y	ID=170 mm	6 mm	Yes	Grey	200 /carton
eOP0048-x-y	eHR-170/186-6-OUT-X-Y	OD=186 mm	6 mm	Yes	Blue	200 /carton
eOP0340-x-y	eHR-170/186-6-IN-R.2-X-Y	ID=170 mm	6 mm	Yes	Yellow	200 /carton
eOP0339-x-y	eHR-170/186-6-OUT-R.2-X-Y	OD=186 mm	6 mm	Yes	Red	200 /carton
eOP0066-x-y	eHR-195/210-6-IN-X-Y	ID=195 mm	6 mm	No	Black	200 /carton
eOP0065-x-y	eHR-195/210-6-OUT-X-Y	OD=210 mm	6 mm	No	Green	200 /carton
eOP0755-x-y	eHR-195/210-6-OUT-R.2-X-Y	OD=210 mm	6 mm	Yes	Green	200 /carton
eOP0236-x-y	eHR-195/210-6-IN-R.1-X-Y	ID=195 mm	6 mm	No	Green	200 /carton
eOP0235-x-y	eHR-195/210-6-OUT-R.1-X-Y	OD=210 mm	6 mm	No	Black	200 /carton
eOP1230-x-y	eHR-195/210-6-IN-R.3-X-Y(R)	ID=195 mm	6 mm	No	Green	200 /carton
eOP1229-x-y	eHR-195/210-6-OUT-R.3-X-Y(R)	OD=210 mm	6 mm	No	Black	200 /carton

NOTE: The word "UP" printed is ePAK Standard style. For printing the word "RADIUS" please add "-R" to end of the ePAK Order Code

Material code info: (–X in P/N):

Material	Code	SR
MPC	eM-16-Y	N/A

Color code info: (-Y in P/N)

Colors:	B = Blue G = Green GY = Grey Y = Yellow

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HOOP RINGS (CONTINUED)

Hoop Rings: (X) is material code, (Y) is color code

ePAK Order Code	ePAK Description	Diameter	Ring Height	Locator Notch	Standard Color	Std Pack Quantity
For 8 Inch/200mm:						
eOP0183-x-y	eHR-225/241-6-IN-X-Y	ID=225 mm	6 mm	No	Yellow	200 /carton
eOP0182-x-y	eHR-225/241-6-OUT-X-Y	OD=241 mm	6 mm	No	Red	200 /carton
eOP0342-x-y	eHR-228/248-7-IN-X-Y	ID=227.7mm	7mm	No	Yellow	100/carton
eOP0341-x-y	eHR-228/248-7-OUT-X-Y	OD=248mm	7mm	No	Red	100/carton
eOP1247-x-y	eHR-240.5/257-6-IN-X-Y(R)	ID=240.5mm	6mm	No	Black	100/carton
eOP1246-x-y	eHR-240.5/257-6-OUT-X-Y(R)	OD=257mm	6mm	No	White	100/carton
For 12 Inch/300mm:						
eOP0327-x-y	eHR-330/347-6-IN-X-Y	ID=330 mm	6mm	No	Black	50 /carton
eOP0326-x-y	eHR-330/347-6-OUT-X-Y	OD=347 mm	6mm	No	Yellow	50 /carton

NOTE: The word "UP" printed is ePAK Standard style. For printing the word "RADIUS" please add "-R" to end of the ePAK Order Code

Material code info: (–X in P/N):

Material	Code	SR
MPC	eM-16-Y	N/A

Color code info: (-Y in P/N)

Colors:	B = Blue G = Green GY = Grey Y = Yellow

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HOOP RING SHIPPERS

eV11-HRS-195/210.170/186-x

eV10-HRS-170/186-x

eHS-195/210-x

eJR-210-65-x

Single Hoop Ring Shippers – Designed to hold single Hoop Ring assembly with wafer and tape

ePAK Order Code	ePAK Description	ID/OD of ring set(s) held	Std Pack Quantity	Materials Options
eVT0289-x	eV11-HRS-195/210.170/186-x	195/210 & 170/186	50 /carton	eM-20-BLK, eM-21-CLR, eM-23
eVT0336-x	eV11-HRS-140/152-x	140mm/152mm and 115mm/126.75mm	100 /carton	eM-20-BLK, eM-21-CLR, eM-23
eVT0680-x	eV11-HRS-140/152-R.1-x	140mm/152mm and 115mm/126.75mm	100 /carton	eM-20-BLK, eM-21-CLR, eM-23
eVT1726-x	eV8-HRS-140/152-R.2-x	140mm/152mm	100 /carton	eM-20-BLK, eM-21-CLR, eM-23
eVT0244-x	eV10-HRS-170/186-x	170mm/186mm	50 /carton	eM-20-BLK, eM-21-CLR, eM-23
eWB0217-195/210-x	eHS-195/210-x	195mm/210mm	20 /carton	eM-12, eM-22
eVT0939-x	eV12-HRS-225/241-x	225mm/241mm	30 /carton	eM-20-BLK, eM-21-CLR, eM-23
eVT2206-x	eV12-HRS-228/248-x	228mm/248mm	30 /carton	eM-20-BLK, eM-21-CLR, eM-23
eVT1465-x	eV20-HRS-330/347-x	330mm/347mm	20 /carton	eM-20-BLK, eM-21-CLR, eM-23

Note: eVT0336 fits loosely around rings, eVT0680 fits snug to outer hoop rings

Material code info: (–x in P/N):

Material	Code	SR
Proprietary conductive PS	eM-20-BLK	10e4-10e11
Clear PS material	eM-21-CLR	N/A
Anti-Static coated Clear PS	eM-23-CLR	10e8-10e11
Clear PC	eM-12-TRA	n/a
Conductive PC	eM-22-BLK	10e2-10e6

Hoop Ring Shippers – Designed to hold multiple Hoop Ring assemblies with wafer and tape

ePAK Order Code	ePAK Description	OD of ring set(s) held	Materials Options
eWB0256-x	eJR-210-65-X	210mm	eM-01-BLK, eM-08-NAT

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GLASS SUBSTRATE SHIPPERS

Round Glass:

Substrate Size	ePAK Order Code	ePAK Description	Max Substrates per Shipper
170x1.5	**eWB0162-x**	eGBX-170x1.5-X	1
160x1.65	**eWB0163-x**	eGBX-160X1.65-20-X	20
180x1.65	**eWB0165-x**	eGBX-180X1.65-20-X	20

Material Code info for adapter plates ONLY:(–x in P/N):

Material	Code	SR
PS	eP-28	n/a
ABS	eM-73	n/a

Rectangular Glass:

Substrate Size	ePAK Order Code	Cassette Description	Max Substrates per Cassette
180x230	**eWB0178-x**	ePB-180X230-25-X	25

Substrate Size	ePAK Order Code	Box Description	Compatible with Cassette:
180x230	**eWB0179-ASSY-#**	ePBX-180X230-ASSY-#	ePB-180X230-25-X

Material Code info: (–x in P/N):

Material	Code	SR
Conductive PP	eM-01-BLK	10e4-10e5
Natural PP (Multi Shipper only)	eM-50-NAT	N/A
**Polyvinylidene Difluoride (PVDF)	eM-56-NAT	n/a

** PVDF Material option is for Cassette only.

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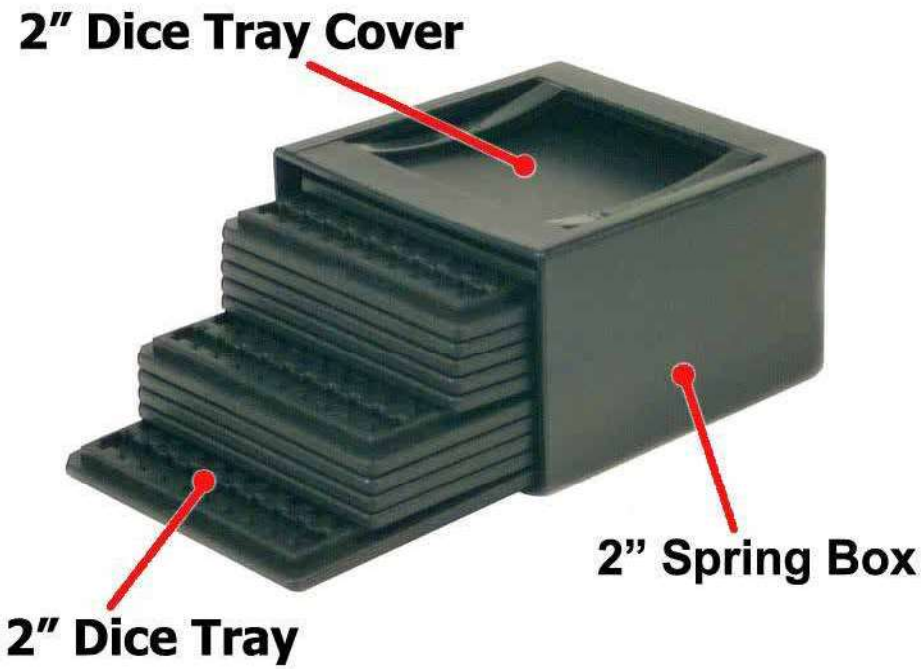
CHIP TRAY SYSTEM



- Flexible packing system
- Fast tooling cycle time
- Standardized outline and full set of accessories including caps, clips and cover tray
- Convenient carrier for sample die, finished IC or other small components
- Contact ePAK today to discuss your custom chip tray solution

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CHIP TRAY SYSTEM

Chip Tray Open Tooling:

2" X 2" TRAYS

Tray size	Chip Size	Thick	Matrix	Order Code	Chip Tray Description	Material Options (-x)	Std Pack Quantity
2" x 2"	0.84X1.3	0.3	16X22	**eDT0036-X**	eD2-0.84X1.3X0.3-1622-X	eM-22-BLK	2000 /carton
2" x 2"	0.89X0.89	0.38	20X20	**eDT0178-X**	eD2 0.89X0.89X0.38 2020 X	eM-22-BLK	2000 /carton
2" x 2"	0.89X0.89	0.38	20X20	**eDT0199-X**	eD2 0.89X0.89X0.38 2020 R.1 X	eM-22-BLK	2000 /carton
2" x 2"	0.9X1.05	0.35	16X16	**eDT0209-X**	eD2 0.90X1.05X0.35 1616 X	eM-22-BLK	2000 /carton
2" x 2"	0.98X1.15	0.35	16X16	**eDT0214-X**	eD2 0.98X1.15X0.35 1616 X	eM-22-BLK	2000 /carton
2" x 2"	1.02X1.02	0.61	20X20	**eDT0202-X**	eD2 1.02X1.02X0.61 2020 X	eM-22-BLK	2000 /carton
2" x 2"	1.07x1.55	0.33	20x16	**eDT0238-X**	eD2 1.07X1.55X0.33 2016 X	eM-22-BLK	2000 /carton
2" x 2"	1.07X1.55	0.51	10X10	**eDT0198-X**	eD2 1.07X1.55X0.51 1010 X	eM-22-BLK	2000 /carton
2" x 2"	1.10X1.30	0.60	16X16	**eDT0203-X**	eD2 1.10X1.30X0.60 1616 X	eM-22-BLK	2000 /carton
2" x 2"	1.1X1.3	0.35	10X10	**eDT0218-X**	eD2 1.10X1.30X0.35 1010 X	eM-22-BLK	2000 /carton
2" x 2"	1.10X1.47	0.8	14X16	**eDT0067-X**	eD2-1.10X1.47X0.80-1416-X	eM-22-BLK	2000 /carton
2" x 2"	1.21X1.15	0.85	16X16	**eDT0161-X**	eD2 1.21X1.15X0.85 1616 X	eM-22-BLK	2000 /carton
2" x 2"	1.21X1.15	0.65	16X16	**eDT0168-X**	eD2 1.21X1.15X0.65 1616 X	eM-22-BLK	2000 /carton
2" x 2"	1.22x2.10	0.62	10x10	**eDT0226-X**	eD2 1.22X2.10X0.62 1010 X	eM-153-BLK	2000 /carton
2" x 2"	1.23X0.83	0.7	15X16	**eDT0187-X**	eD2 1.23X0.83X0.70 1516 X	eM-22-BLK	2000 /carton
2" x 2"	1.27X1.25	0.35	20X20	**eDT0213-X**	eD2 1.27X1.25X0.35 2020 X	eM-22-BLK	2000 /carton
2" x 2"	1.27X1.55	0.35	10X10	**eDT0212-X**	eD2 1.27X1.55X0.35 1010 X	eM-22-BLK	2000 /carton
2" x 2"	1.38x1.88	0.33	11x10	**eDT0234-X**	eD2 1.38X1.88X0.33 1110 X	eM-153-BLK	2000 /carton
2" x 2"	1.40X0.89	0.51	24X19	**eDT0064-X**	eD2-1.40X0.89X0.51-2419-X	eM-22-BLK	2000 /carton
2" x 2"	1.43X1.0	0.8	15X18	**eDT0103-X**	eD2-1.43X1.0X0.8-1518-X	eM-22-BLK	2000 /carton
2" x 2"	1.4X1.4	0.34	12x12	**eDT0224-X**	eD2 1.40X1.40X0.34 1212 X	eM-153-BLK	2000 /carton
2" x 2"	1.4X1.4	0.61	20X20	**eDT0179-X**	eD2 1.40X1.40X0.61 2020 X	eM-22-BLK	2000 /carton

Material code options: (–x in P/N):

Material	Code	SR	Material	Code	SR
Conductive PP	eM-01-BLK	10e4-10e5	ABS	eM-24	n/a
Conductive PP	eM-09-BLK	<10e6	Conductive PP	eM-37-BLK	10e4-10e6
Conductive PS	eP-16-BLK	10e4-10e7	Conductive PC	eM-153-BLK	10e5-10e9
Conductive PC	eM-22-BLK	10e4-10e5			

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CHIP TRAY SYSTEM (CONTINUED)

OUR TEAM MAKES THE DIFFERENCE

2" X 2" TRAYS (continued)

Tray size	Chip Size	Thick	Matrix	Order Code	Chip Tray Description	Material Options (-x)	Std Pack Quantity
2" x 2"	1.50x1.00	0.62	10x10	**eDT0232-X**	eD2 1.50X1.00X0.62 1010 X	eM-22-BLK	2000 /carton
2" x 2"	1.52X1.52	0.3	20X20	**eDT0157-X**	eD2 1.52X1.52X0.30 2020 X	eM-22-BLK	2000 /carton
2" x 2"	1.55X1.0	0.35	10X10	**eDT0216-X**	eD2 1.55X1.00X0.35 1010 X	eM-22-BLK	2000 /carton
2" x 2"	1.55X2.60	1.1	13X10	**eDT0086-X**	eD2-1.55X2.60X1.10-1310-X	eM-22-BLK	2000 /carton
2" x 2"	1.58X0.98	1.05	10X10	**eDT0180-X**	eD2 1.58X0.98X1.05 1010 X	eM-22-BLK	2000 /carton
2" x 2"	1.65X1.65	0.61	10X10	**eDT0061-X**	eD2-1.65X1.65X0.61-1010-X	eM-22-BLK	2000 /carton
2" x 2"	1.7X1.1	0.35	10X10	**eDT0220-X**	eD2 1.70X1.10X0.35 1010 X	eM-22-BLK	2000 /carton
2" x 2"	1.73X2.13	0.75	11X10	**eDT0169-X**	eD2 1.73X2.13X0.75 1110 X	eM-22-BLK	2000 /carton
2" x 2"	1.8X1.9	0.35	10X10	**eDT0217-X**	eD2 1.80X1.90X0.35 1010 X	eM-22-BLK	2000 /carton
2" x 2"	1.83X2.29	0.46	12X16	**eDT0063-X**	eD2-1.83X2.29X0.46-1216-X	eM-22-BLK	2000 /carton
2" x 2"	1.84X1.35	0.74	15X20	**eDT0208-X**	eD2 1.84X1.35X0.74 1520 X	eM-22-BLK	2000 /carton
2" x 2"	1.91X1.91	0.61	18X18	**eDT0204-X**	eD2 1.91X1.91X0.61 1818 X	eM-22-BLK	2000 /carton
2" x 2"	2.03X2.03	0.61	13X13	**eDT0207-X**	eD2 2.03X2.03X0.61 1313 X	eM-22-BLK	2000 /carton
2" x 2"	2.25X2.47	1.12	10X11	**eDT0072-X**	eD2-2.25X2.47X1.12-1011-X	eM-22-BLK	2000 /carton
2" x 2"	2.29X2.29	0.61	10X10	**eDT0051-X**	eD2-2.29X2.29X0.61-1010-X	eM-22-BLK	2000 /carton
2" x 2"	2.29X2.29	0.61	10X10	**eDT0182-X**	eD2 2.29x2.29x0.61 1010 R.1 X	eM-22-BLK	2000 /carton
2" x 2"	2.30X1.90	0.8	11X12	**eDT0101-X**	eD2-2.30X1.90X0.80-1112-X	eM-22-BLK, eM-24	2000 /carton
2" x 2"	2.30X3.80	1.1	8X10	**eDT0093-X**	eD2-2.30X3.80X1.10-0810-X	eM-22-BLK	2000 /carton
2" x 2"	2.34X2.83	1.1	11X10	**eDT0073-X**	eD2-2.34X2.83X1.10-1110-X	eM-22-BLK	2000 /carton
2" x 2"	2.36X3.75	1.1	8X11	**eDT0085-X**	eD2-2.36X3.75X1.10-0811-X	eM-22-BLK	2000 /carton
2" x 2"	2.74X1.37	1.1	9X14	**eDT0047-X**	eD2-2.74X1.37X1.10-0914-X	eM-22-BLK	2000 /carton
2" x 2"	2.74X3.18	1.1	9X9	**eDT0044-X**	eD2-2.74X3.18X1.1-0909-X	eM-22-BLK	2000 /carton

Material code options: (–x in P/N):

Material	Code	SR	Material	Code	SR
Conductive PP	eM-01-BLK	10e4-10e5	ABS	eM-24	n/a
Conductive PP	eM-09-BLK	<10e6	Conductive PP	eM-37-BLK	10e4-10e6
Conductive PS	eP-16-BLK	10e4-10e7	Conductive PC	eM-153-BLK	10e5-10e9
Conductive PC	eM-22-BLK	10e4-10e5			

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CHIP TRAY SYSTEM (CONTINUED)

OUR TEAM MAKES THE DIFFERENCE

2" X 2" TRAYS (continued)

Tray size	Chip Size	Thick	Matrix	Order Code	Chip Tray Description	Material Options (-x)	Std Pack Quantity
2" x 2"	2.79X1.98	0.51	11X14	**eDT0185-X**	eD2 2.79X1.98X0.51 1114 X	eM-22-BLK	2000 /carton
2" x 2"	2.8X2.8	0.9	10X10	**eDT0015-X**	eD2-2.8-2.8X0.9-1010-X	eM-22-BLK	2000 /carton
2" x 2"	2.80X3.40	0.8	10X9	**eDT0094-X**	eD2-2.80X3.40X0.80-1009-X	eM-22-BLK, eM-24	2000 /carton
2" x 2"	2.8X4.07	1.1	9X8	**eDT0046-X**	eD2-2.8X4.07X1.1-0908-X	eM-22-BLK	2000 /carton
2" x 2"	2.92X1.82	0.9	10X13	**eDT0129-X**	eD2 2.92X1.82X0.90 1013 X	eM-22-BLK	2000 /carton
2" x 2"	2.96X1.35	0.9	9X14	**eDT0117-X**	eD2 2.96X1.35X0.90 0914 X	eM-22-BLK	2000 /carton
2" x 2"	3.05X8.55	0.49	10X4	**eDT0125-X**	eD2 3.05X8.55X0.49 1004 X	eM-22-BLK	2000 /carton
2" x 2"	3.14X3.69	0.75	8X7	**eDT0170-X**	eD2 3.14X3.69X0.75 0807 X	eM-22-BLK	2000 /carton
2" x 2"	3.2X3.2	1.1	10X10	**eDT0126-X**	eD2 3.2X3.2X1.1 1010 X	eM-22-BLK	2000 /carton
2" x 2"	3.28X3.08	1.1	9X9	**eDT0045-X**	eD2-3.28X3.08X1.1-0909-X	eM-22-BLK	2000 /carton
2" x 2"	3.3X3.3	0.9	10X10	**eDT0016-X**	eD2-3.3X3.3X0.9-1010-X	eM-01-BLK	2000 /carton
2" x 2"	3.48X2.38	0.8	7X9	**eDT0173-X**	eD2 3.48X2.38X0.80 0709 X	eM-22-BLK	2000 /carton
2" x 2"	3.7X1.65	0.35	8X14	**eDT0211-X**	eD2 3.70X1.65X0.35 0814 X	eM-22-BLK	2000 /carton
2" x 2"	3.71X4.07	0.7	7x7	**eDT0221-X**	eD2 3.71X4.07X0.70 0707 X	eM-153-BLK	2000 /carton
2" x 2"	3.76X1.8	0.25	9X15	**eDT0206-X**	eD2 3.76X1.80X0.25 0915 X	eM-22-BLK	2000 /carton
2" x 2"	3.8X2.2	0.7	10X10	**eDT0017-X**	eD2-3.8X2.2X0.7-1010-X	eM-01-BLK	2000 /carton
2" x 2"	3.89X1.85	0.79	17X9	**eDT0030-X**	eD2-3.89X1.85X0.79-1709	eP16,eM-22-BLK	2000 /carton
2" x 2"	4.08x6.52	0.58	7x5	**eDT0231-X**	eD2 4.08X6.52X0.58 0705 X	eM-153-BLK	2000 /carton
2" x 2"	4.1x5.63	0.58	7x5	**eDT0229-X**	eD2 4.10X5.63X0.58 0705 X	eM-153-BLK	2000 /carton
2" x 2"	4.11X2.90	0.8	7X9	**eDT0172-X**	eD2 4.11X2.90X0.80 0709 X	eM-22-BLK	2000 /carton
2" x 2"	4.3X2.3	0.35	7X10	**eDT0219-X**	eD2 4.30X2.30X0.35 0710 X	eM-22-BLK	2000 /carton
2" x 2"	4.46X2.55	0.66	8X14	**eDT0177-X**	eD2 4.46X2.55X0.66 0814 X	eM-22-BLK	2000 /carton

Material code options: (–x in P/N):

Material	Code	SR
Conductive PP	eM-01-BLK	10e4-10e5
Conductive PP	eM-09-BLK	<10e6
Conductive PS	eP-16-BLK	10e4-10e7
Conductive PC	eM-22-BLK	10e4-10e5

Material	Code	SR
ABS	eM-24	n/a
Conductive PP	eM-37-BLK	10e4-10e6
Conductive PC	eM-153-BLK	10e5-10e9

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CHIP TRAY SYSTEM (CONTINUED)

2" X 2" TRAYS (continued)

Tray size	Chip Size	Thick	Matrix	Order Code	Chip Tray Description	Material Options (-x)	Std Pack Quantity
2" x 2"	4.46X2.55	0.66	8X14	**eDT0200-X**	eD2 4.46X2.55X0.66 0814 R.1 X	eM-22-BLK	2000 /carton
2" x 2"	4.50x3.10	0.75	6x7	**eDT0225-X**	eD2 4.50X3.10X0.75 0607 X	eM-22-BLK	2000 /carton
2" x 2"	4.52X4.12	0.58	7x7	**eDT0223-X**	eD2 4.52X4.12X0.58 0707 X	eM-153-BLK	2000 /carton
2" x 2"	4.53X4.53	0.75	6X6	**eDT0186-X**	eD2 4.53X4.53X0.75 0606 X	eM-22-BLK	2000 /carton
2" x 2"	4.59X5.91	0.85	7X5	**eDT0048-X**	eD2 4.59X5.91X0.85 0705 X	eM-22-BLK	2000 /carton
2" x 2"	4.74X2.35	1.1	7X10	**eDT0082-X**	eD2 4.74X2.35X1.10 0710 X	eM-22-BLK	2000 /carton
2" x 2"	5.08X13.46	0.76	3X7	**eDT0062-X**	eD2 5.08X13.46X0.76 0307 X	eM-22-BLK	2000 /carton
2" x 2"	5.15X1.15	1.8	10X6	**eDT0007-X**	eD2-5.115X1.15X1.8-1006-X	eM-09-BLK	2000 /carton
2" x 2"	5.15X11.5	1.8	5x3	**eDT0113-X**	eD2 5.15X11.50X1.80 0503 X	eM-22-BLK	2000 /carton
2" x 2"	5.30X5.30	0.9	6X6	**eDT0049-X**	eD2 5.30X5.30X0.9 0606 X	eM-22-BLK	2000 /carton
2" x 2"	5.75X2.36	1.1	5X11	**eDT0081-X**	eD2 5.75X2.36X1.10 0511 X	eM-22-BLK	2000 /carton
2" x 2"	6.35X6.35	0.61	6X6	**eDT0060-X**	eD2 6.35X6.35X0.61 0606 X	eM-22-BLK	2000 /carton
2" x 2"	6.80X2.30	1.1	5X10	**eDT0098-X**	eD2 6.80X2.30X1.10 0510 X	eM-22-BLK	2000 /carton
2" x 2"	6.87X2.92	0.48	5X9	**eDT0188-X**	eD2 6.87X2.92X0.48 0509 X	eM-22-BLK	2000 /carton
2" x 2"	8.55X2.95	0.49	4X10	**eDT0119-X**	eD2 8.55X2.95X0.49 0410 X	eM-22-BLK	2000 /carton
2" x 2"	9.8X2.8	0.55	11X4	**eDT0022-X**	eD2-9.8X2.8X0.55-1104-X	eM-24	2000 /carton
2" x 2"	12.8X2.39	0.9	14X3	**eDT0002-X**	eD2-12.8X2.39X0.9-1403-X	eM-01-BLK	2000 /carton
2" x 2"	13X11	0.8	2X3	**eDT0010-X**	eD2-13X11X0.8-203-X	eM-01-BLK, eM-09	2000 /carton
2" x 2"	40X40	1.76	1X1	**eDT0043-X**	eD2-40X40X1.1-X	eM-22-BLK	2000 /carton

Material code options: (–x in P/N):

Material	Code	SR	Material	Code	SR
Conductive PP	eM-01-BLK	10e4-10e5	ABS	eM-24	n/a
Conductive PP	eM-09-BLK	<10e6	Conductive PP	eM-37-BLK	10e4-10e6
Conductive PS	eP-16-BLK	10e4-10e7	Conductive PC	eM-153-BLK	10e5-10e9
Conductive PC	eM-22-BLK	10e4-10e5			

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CHIP TRAY SYSTEM (CONTINUED)

3″ X 3″ TRAYS

Tray size	Chip Size	Thick	Matrix	Order Code	Chip Tray Description	Material Options (-x)	Std Pack Quantity
3″ x 3″	8.41X1.91	0.03	20X6	**eDT0069-X**	eD3-8.41X1.91X0.30-2006-X	eM-22-BLK	2000 /carton

4″ X 4″ TRAYS

Tray size	Chip Size	Thick	Matrix	Order Code	Chip Tray Description	Material Options (-x)	Std Pack Quantity
4″ x 4″	1.25X1.15	0.3	20X20	**eDT0028-X**	eD4-1.25X1.15X0.3-2020-X	eM-22-BLK	2000 /carton
4″ x 4″	2.55X2.55	1.85	20X20	**eDT0121-X**	eD4 2.55X2.55X1.85 2020-X	eM-22-BLK	2000 /carton
4″ x 4″	2.70X2.20	1.00	21X24	**eDT0123-X**	eD4 2.70X2.20X1.00 2124 X	eM-22-BLK	2000 /carton
4″ x 4″	3.41X3.16	1.21	10X10	**eDT0079-X**	eD4 3.41X3.16X1.21 1010 X	eM-22-BLK	2000 /carton
4″ x 4″	4.21X4.21	0.75	15X15	**eDT0144-X**	eD4 4.21X4.21X0.75 1515 X	eM-22-BLK	2000 /carton
4″ x 4″	4.95x2.08	0.50	12x24	**eDT0253-X**	eD4 4.95X2.08X0.50 1224 X	eM-22-BLK	2000 /carton
4″ x 4″	6.5X6.5	0.7	11X11	**eDT0122-X**	eD4 6.5X6.5X0.7 1111 X	eM-22-BLK	2000 /carton
4″ x 4″	6.66X4.16	1.55	15X5	**eDT0095-X**	eD4 6.66X4.16X1.55 1505-X	eM-22-BLK	2000 /carton
4″ x 4″	8.15X5.65	1.62	13X05	**eDT0124-X**	eD4 8.15X5.65X1.62 1305-X	eM-22-BLK	2000 /carton
4″ x 4″	13X13	2	6X6	**eDT0083-X**	eD4 13X13X2.0 0606-X	eM-22-BLK	2000 /carton

Material code options: (–x in P/N):

Material	Code	SR	Material	Code	SR
Conductive PP	eM-01-BLK	10e4-10e5	ABS	eM-24	n/a
Conductive PP	eM-09-BLK	<10e6	Conductive PP	eM-37-BLK	10e4-10e6
Conductive PS	eP-16-BLK	10e4-10e7			
Conductive PC	eM-22-BLK	10e4-10e5			

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CHIP TRAY SYSTEM (CONTINUED)

1 Piece Clip

2 Piece Clip

Spring Box

Material code options: (–x in P/N):		
Material	**Code**	**SR**
Conductive PP	eM-01-BLK	10e4-10e5
ABS	eM-24	N/A
CFPP	eM-46-BLK	10e4-10e10
Anti-static spun PO(Tyvek®)	eM-03-A-WHT	10e6-10e11

Chip Tray Covers:

Tray Size & Function	Thick	Matrix	Order Code	Chip Tray Description	Std Pack Quantity
2″ Cover	n/a	n/a	**eDT0001-eM-01-BLK**	eD2-COVER(1)-eM-01-BLK	2000 / carton
2″ Cover	n/a	n/a	**eDT0026-eM-37**	eD2-COVER(1)-eM-37	2000 / carton
2″ Cover	n/a	n/a	**eDT0027-eM-22-BLK**	eD2-COVER(1)-eM-22-BLK	2000 / carton
2″ Cover	n/a	n/a	**eDT0025-eM-01-BLK**	eD2-COVER(3)-eM-01-BLK	2000 / carton
3″ Cover	n/a	n/a	**eDT0070-x**	eD3-Cover-X	2000 / carton
4″ Cover	n/a	n/a	**eDT0080-x**	eD4-Cover(3)-X	2000 / carton

Chip Tray Accessories:

Tray Size & Function	STYLE	Capacity	Order Code	Description	Std Pack Quantity
CLIPS:					
2″ Clip	1 Piece Clip	2	**eEC0013-eM-01-BLK**	eD2-CLIP2-R.1-eM-01-BLK	2500 / carton
2″ Clip	1 Piece Clip	2	**eEC0026-eM-24**	eD2-CLIP2-R.1-eM-24	2500 / carton
2″ Clip	1 Piece Clip	2	**eEC0013-eM-46-BLK**	eD2-CLIP2-R.1-eM-46-BLK	2500 / carton
2″ Clip	2 Piece Clip	2	**eEC0011-eM-01-BLK**	eD2-CLIP2-eM-01-BLK	2000 / carton
2″ Clip	2 Piece Clip	6	**eEC0010-eM-01-BLK**	eD2-CLIP6-eM-01-BLK	2000 / carton
2″ Clip	2 Piece Clip	11	**eEC0009-eM-01-BLK**	eD2-CLIP11-eM-01-BLK	2000 / carton
3″ Clip	2 Piece Clip	6	**eEC0021-eM-01-BLK**	eD3-CLIP6-eM-01-BLK	2000 / carton
4″ Clip	1 Piece Clip	2	**eEC0024-eM-01-BLK**	eD4-CLIP2-eM-01-BLK	2500 / carton
4″ Clip	2 Piece Clip	6	**eEC0023-eM-01-BLK**	eD4-CLIP6-eM-01-BLK	2000 / carton
2″ Spring Box	Spring Box	6	**eEC0033-eM-01-BLK**	eD2-EC06-R.1-eM-01-BLK	2000 / carton
2″ Spring Box	Spring Box	11	**eEC0012-eM-01-BLK**	eD2-EC11-eM-01-BLK	2000 / carton
INTERLEAF:					
2″ Interleaf	Interleaf	n/a	**eIL0012-eM-03-A-WHT**	eIL2-44.5x44.5-0.16-eM-03-A-WHT	10K /carton
2″ Interleaf	Interleaf	n/a	**eIL0020-eM-03-A-WHT**	eIL2-45.72x45.72-0.16-eM-03-A-WHT	10K /carton
4″ Interleaf	Interleaf	n/a	**eIL0088-eM-03-A-WHT**	eIL4-90.8x90.8-0.16-eM-03-A-WHT	10K /carton
4″ Interleaf	Interleaf	n/a	**eIL0103-eM-20-BLK**	eIL4-90.8x90.8-0.07-eM-20-BLK	10K /carton

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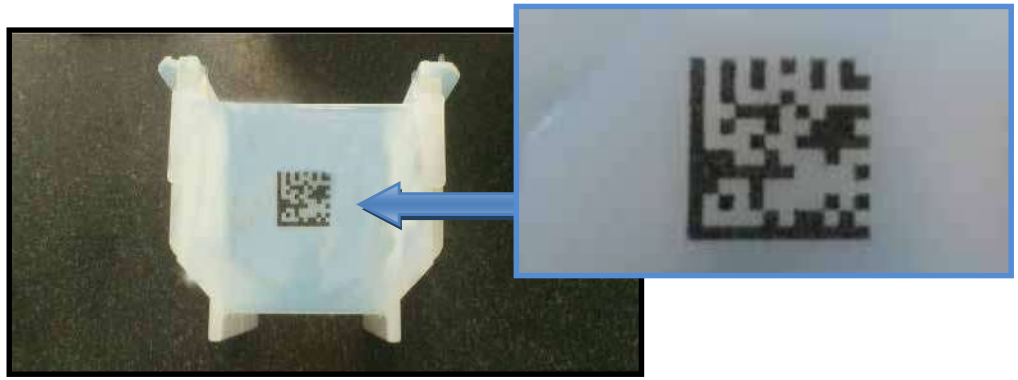

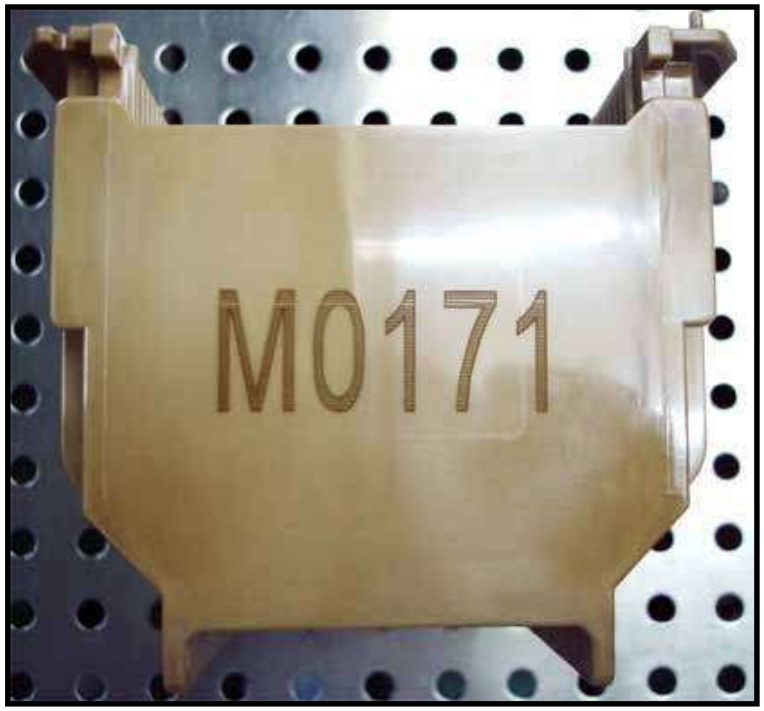

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RETICLE BOX

- Front snap lock mechanism for easy box closure
- Integrated hinge set for easy operator opening

Reticle Box:

ePAK Order Code	ePAK Description	Std Pack Quantity
eWB0005-eM-12	ePM-126-3-eM-12	20 /carton
eWB0034-eM-34	ePM-126-2-eM-34	20 /carton

Material code info: (–x in P/N):

Material	Code	SR
Clear PC	eM-12-TRA	n/a
ESD PP	eM-34-BLK	10e6-10e10

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