

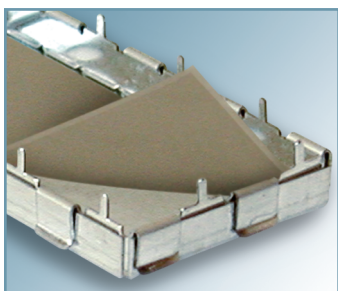
## PCB shielded enclosures with RF absorbers

Shielded enclosures for RF radiations from PCB components stop RF energy right at the source, eliminating re-radiation and interference with other nearby components as well as reducing the number of other shielding expenditures such as filters, gaskets and RF hardening of the equipment exterior structure.

The addition of a frequency-tuned absorber membrane layer adds unprecedented performance, assimilating radiated energy without relying on repeated reflections from the interior surfaces of the shield, and without problems of harmonic resonance. Refer to sketches at right.

## modular fence and cover design

The versatile shield design includes a solderable fence and tight-fitting cover assembly of copper alloy 770 (C77000), a tough solder-compatible material which does not require plating nor has corrosion prone bare edges. The removable cover provides convenient access to circuitry; and is very cost-effective due to the use of universal multi-use manufacturing tooling.



RF absorber membrane partially detached from lid for exhibit purpose only.

## custom tuning to the exact frequency

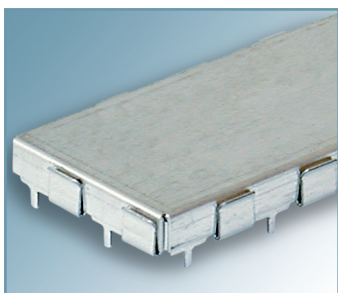
Each enclosure shield size can be combined with frequency-specific absorber material bonded to the cover interior for exacting remediation of otherwise errant frequency emanations - a selection of five EMC absorbers effective from 50 MHz to 1 GHz along with an extra wideband version effective from 40 MHz to 5 GHz; and, ten Microwave versions effective up to 116 GHz.

## absorber membrane specifications

### EMC standard series – 50MHz to 1GHz

Five frequency-specific formulations.

| Material Characteristic | Measure                         |                      |             |
|-------------------------|---------------------------------|----------------------|-------------|
| Frequency range         | 50 MHz - 1 GHz                  |                      |             |
| Peak frequency choices  | 100, 300, 400, 500 or 800 MHz   |                      |             |
| Temperature range       | -20°C to 100°C                  |                      |             |
| Flammability rating     | UL94-V0                         |                      |             |
| Adhesive: temperature   | 0°F to 180°F                    | -18°C to 83°C        | ASTM D-3575 |
| tack                    | 8.4 p.s.i. (stainless steel)    |                      | ASTM D-3575 |
| shear                   | 300+ hrs. @ 2 p.s.i. @ 22°C     |                      | ASTM D-3575 |
| Dimensions: standard    | 15.75" W x 15.75" L x .011" max | 400,0 x 400,0 x 0,28 |             |
| maximum                 | 3'-0" W x 65'-0" L x .011" max  | 1,0 x 20,0 M x 0,28  |             |

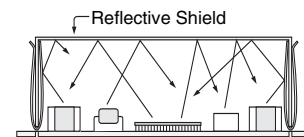


pin mount

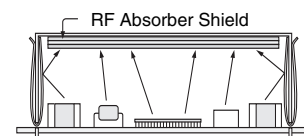
## EMC extra wideband series

40MHz TO 5GHz @ 3.2GHz PEAK. This all-around universal wideband formula is available in a standard temperature type and a high temperature type (up to 200°C). Excellent performance from 40MHz to 5GHz (PS3200EMC series, opposite page).

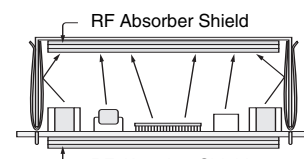
| Material Characteristic  | Measure                                       |                      |             |
|--------------------------|-----------------------------------------------|----------------------|-------------|
| Frequency range          | 40 MHz - 5 GHz                                |                      |             |
| Peak frequency           | 3.2 GHz                                       |                      |             |
| Temperature range        | -20°C to 100°C and -10°C to 200°C (high temp) |                      |             |
| Flammability rating      | UL94-V0                                       |                      |             |
| Adhesive: standard temp. | 0°F to 180°F                                  | -18°C to 83°C        | ASTM D-3575 |
| high temp.               | 50°F to 312°F                                 | 10°C to 200°C        | ASTM D-3575 |
| tack                     | 8.4 p.s.i. (stainless steel standard)         |                      | ASTM D-3575 |
|                          | 8.3 p.s.i. (stainless steel high temperature) |                      | ASTM D-3575 |
| shear                    | 300+ hrs. @ 2 p.s.i. @ 22°C                   |                      | ASTM D-3575 |
| Dimensions: standard     | 8.25" W x 15.75" L x .004" max                | 210,0 x 400,0 x 0,10 |             |
| maximum                  | 3'-0" W x 65'-0" L x .004" max                | 1,0 x 20,0 M x 0,10  |             |



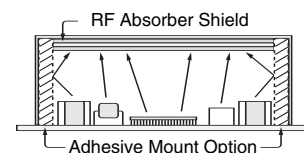
Typical shielding approach allows reflected radiation to affect neighboring components.



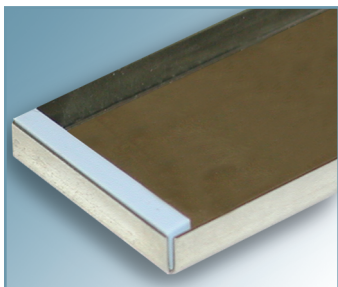
RF absorber approach assimilates radiated frequencies and converts to imperceptible heat energy. Specific frequency-tuned absorber material is bonded to the lid interior. A wide range of EMC and Microwave absorbers can be specified from 40 MHz up to 116 GHz.



PCB Shield effectiveness can be further enhanced by adding RF absorber material under PCB (see pages 30-34).



Adhesive Mount Option

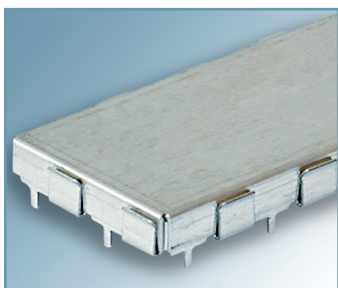


adhesive mount

## Microwave series: – up to 116 GHz

The MA series is a high frequency microwave noise absorber in a range of formulations addressing 2.0GHz to 116GHz radiations from electronic components.

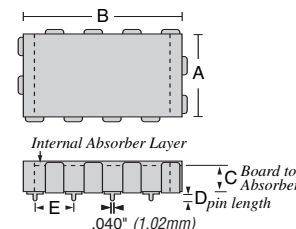
| Material Characteristic | Measure                                                     |
|-------------------------|-------------------------------------------------------------|
| Frequency range         | 2.0 MHz - 116.0 GHz                                         |
| Peak frequency choices  | 2.4, 5.8, 10, 18, 24, 26, 38, 60, 76, 110 GHz               |
| Temperature range       | -20°C to 110°C                                              |
| Flammability rating     | UL94-V0                                                     |
| Adhesive: temperature   | 0°F to 180°F -18°C to 83°C                                  |
| tack                    | 8.4 p.s.i. (stainless steel)                                |
| shear                   | 300+ hrs. @ 2 p.s.i. @ 22°C                                 |
| Dimensions: standard    | 7.875" W x 15.75" L x .138" max. <i>200,0 x 400,0 x 3,5</i> |
| maximum                 | 3'-0" W x 65'-0" L x .138" max <i>1,0 x 20,0 M x 3,5</i>    |



## EMC type PCB shield enclosures

**THROUGH-HOLE OR ADHESIVE MOUNT – UP TO 5GHz.** The EMC series is available in three standard sizes; each can be combined with an absorber layer bonded to the inside of the lid in seven choices including the "3200" extra wideband absorber with effective characteristics from 40 MHz through 5 GHz, which is also available in a high temperature version. Refer to page 28 for absorber material characteristics, and page 29 for typical absorption rates by frequency.

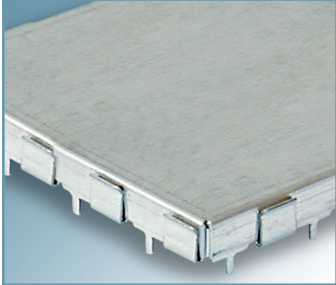
For recommended Mounting Hole Patterns, visit our web site at [www.ferrishield.com](http://www.ferrishield.com) under **PCB Shield Enclosures** and click on link **PCB Mounting Hole Patterns**. Adhesive mount option provides quick installation, easy retrofit.



Through-hole mount – recommended hole size .050" (1,27mm)  
Surface mount – pins formed w/ 90° outward bend, add "SM" suffix to the part #  
Adhesive mount – no holes required

| PART No.      | Adhesive Mount          | A                | B                 | C                | D               | E                | Frequency Range | Peak Frequency Attenuation |
|---------------|-------------------------|------------------|-------------------|------------------|-----------------|------------------|-----------------|----------------------------|
| PS100EMC24    | PS100EMC24A             | 1.00 <i>25,4</i> | 2.00 <i>50,8</i>  | .198 <i>5,0</i>  | .100 <i>2,5</i> | .500 <i>12,7</i> | 50 MHz to 1 GHz | 100 MHz @ -17.3 dB         |
| PS300EMC24    | PS300EMC24A             | 1.00 <i>25,4</i> | 2.00 <i>50,8</i>  | .198 <i>5,0</i>  | .100 <i>2,5</i> | .500 <i>12,7</i> | 50 MHz to 1 GHz | 300 MHz @ -17.6 dB         |
| PS400EMC24    | PS400EMC24A             | 1.00 <i>25,4</i> | 2.00 <i>50,8</i>  | .198 <i>5,0</i>  | .100 <i>2,5</i> | .500 <i>12,7</i> | 50 MHz to 1 GHz | 400 MHz @ -17.2 dB         |
| PS500EMC24    | PS500EMC24A             | 1.00 <i>25,4</i> | 2.00 <i>50,8</i>  | .189 <i>4,8</i>  | .100 <i>2,5</i> | .500 <i>12,7</i> | 50 MHz to 1 GHz | 500 MHz @ -17.8 dB         |
| PS800EMC24    | PS800EMC24A             | 1.00 <i>25,4</i> | 2.00 <i>50,8</i>  | .192 <i>4,9</i>  | .100 <i>2,5</i> | .500 <i>12,7</i> | 50 MHz to 1 GHz | 800 MHz @ -17.9 dB         |
| PS3200EMC24   | PS3200EMC24A            | 1.00 <i>25,4</i> | 2.00 <i>50,8</i>  | .196 <i>5,0</i>  | .100 <i>2,5</i> | .500 <i>12,7</i> | 40 MHz to 5 GHz | 3.2 GHz @ -31.3 dB         |
| PS3200EMC24H* | PS3200EMC24HA*          | 1.00 <i>25,4</i> | 2.00 <i>50,8</i>  | .196 <i>5,0</i>  | .100 <i>2,5</i> | .500 <i>12,7</i> | 40 MHz to 5 GHz | 3.2 GHz @ -31.3 dB         |
| PSEMC24       | PSEMC24A (w/o absorber) | 1.00 <i>25,4</i> | 2.00 <i>50,8</i>  | .200 <i>5,1</i>  | .100 <i>2,5</i> | .500 <i>12,7</i> | 50 MHz to 1 GHz | 100 MHz @ -5.3 dB          |
| PS100EMC44    | PS100EMC44A             | 2.00 <i>50,8</i> | 3.00 <i>76,2</i>  | .398 <i>10,1</i> | .120 <i>3,0</i> | .500 <i>12,7</i> | 50 MHz to 1 GHz | 100 MHz @ -17.3 dB         |
| PS300EMC44    | PS300EMC44A             | 2.00 <i>50,8</i> | 3.00 <i>76,2</i>  | .398 <i>10,1</i> | .120 <i>3,0</i> | .500 <i>12,7</i> | 50 MHz to 1 GHz | 300 MHz @ -17.6 dB         |
| PS400EMC44    | PS400EMC44A             | 2.00 <i>50,8</i> | 3.00 <i>76,2</i>  | .398 <i>10,1</i> | .120 <i>3,0</i> | .500 <i>12,7</i> | 50 MHz to 1 GHz | 400 MHz @ -17.2 dB         |
| PS500EMC44    | PS500EMC44A             | 2.00 <i>50,8</i> | 3.00 <i>76,2</i>  | .389 <i>9,9</i>  | .120 <i>3,0</i> | .500 <i>12,7</i> | 50 MHz to 1 GHz | 500 MHz @ -17.8 dB         |
| PS800EMC44    | PS800EMC44A             | 2.00 <i>50,8</i> | 3.00 <i>76,2</i>  | .392 <i>10,0</i> | .120 <i>3,0</i> | .500 <i>12,7</i> | 50 MHz to 1 GHz | 800 MHz @ -17.9 dB         |
| PS3200EMC44   | PS3200EMC44A            | 2.00 <i>50,8</i> | 3.00 <i>76,2</i>  | .396 <i>10,1</i> | .120 <i>3,0</i> | .500 <i>12,7</i> | 40 MHz to 5 GHz | 3.2 GHz @ -31.3 dB         |
| PS3200EMC44H* | PS3200EMC44HA*          | 2.00 <i>50,8</i> | 3.00 <i>76,2</i>  | .396 <i>10,1</i> | .120 <i>3,0</i> | .500 <i>12,7</i> | 40 MHz to 5 GHz | 3.2 GHz @ -31.3 dB         |
| PSEMC44       | PSEMC44A (w/o absorber) | 2.00 <i>50,8</i> | 3.00 <i>76,2</i>  | .400 <i>10,2</i> | .120 <i>3,0</i> | .500 <i>12,7</i> | 50 MHz to 1 GHz | 100 MHz @ -5.3 dB          |
| PS100EMC59    | PS100EMC59A             | 3.00 <i>76,2</i> | 4.50 <i>114,3</i> | .498 <i>12,6</i> | .120 <i>3,0</i> | .250 <i>6,4</i>  | 50 MHz to 1 GHz | 100 MHz @ -17.3 dB         |
| PS300EMC59    | PS300EMC59A             | 3.00 <i>76,2</i> | 4.50 <i>114,3</i> | .498 <i>12,6</i> | .120 <i>3,0</i> | .250 <i>6,4</i>  | 50 MHz to 1 GHz | 300 MHz @ -17.6 dB         |
| PS400EMC59    | PS400EMC59A             | 3.00 <i>76,2</i> | 4.50 <i>114,3</i> | .498 <i>12,6</i> | .120 <i>3,0</i> | .250 <i>6,4</i>  | 50 MHz to 1 GHz | 400 MHz @ -17.2 dB         |
| PS500EMC59    | PS500EMC59A             | 3.00 <i>76,2</i> | 4.50 <i>114,3</i> | .489 <i>12,4</i> | .120 <i>3,0</i> | .250 <i>6,4</i>  | 50 MHz to 1 GHz | 500 MHz @ -17.8 dB         |
| PS800EMC59    | PS800EMC59A             | 3.00 <i>76,2</i> | 4.50 <i>114,3</i> | .492 <i>12,5</i> | .120 <i>3,0</i> | .250 <i>6,4</i>  | 50 MHz to 1 GHz | 800 MHz @ -17.9 dB         |
| PS3200EMC59   | PS3200EMC59A            | 3.00 <i>76,2</i> | 4.50 <i>114,3</i> | .496 <i>12,6</i> | .120 <i>3,0</i> | .250 <i>6,4</i>  | 40 MHz to 5 GHz | 3.2 GHz @ -31.3 dB         |
| PS3200EMC59H* | PS3200EMC59HA*          | 3.00 <i>76,2</i> | 4.50 <i>114,3</i> | .496 <i>12,6</i> | .120 <i>3,0</i> | .250 <i>6,4</i>  | 40 MHz to 5 GHz | 3.2 GHz @ -31.3 dB         |
| PSEMC59       | PSEMC59A (w/o absorber) | 3.00 <i>76,2</i> | 4.50 <i>114,3</i> | .500 <i>12,7</i> | .120 <i>3,0</i> | .250 <i>6,4</i>  | 50 MHz to 1 GHz | 100 MHz @ -5.3 dB          |

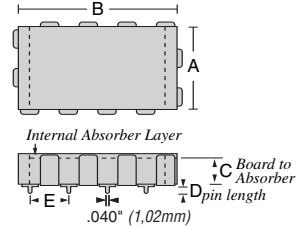
\*NOTE: "H" variations of these "PS3200EMC" types are the high temperature version



## microwave type PCB shield enclosures

**THROUGH-HOLE OR ADHESIVE MOUNT – UP TO 116GHz.** The microwave series is available in three standard sizes; each can be combined with an absorber membrane bonded to the lid. There are ten types of frequency-sensitive absorber materials with effectiveness up to 116 GHz. The multi-layered absorbers of screened matrixes are tuned for discrete impedance matching to absorb microwaves from a wide range of angles. Refer to page 30 for absorber material characteristics, and to page 31 for typical absorption rates by frequency.

For recommended Mounting Hole Patterns, visit our web site at [www.ferrishield.com](http://www.ferrishield.com) under **PCB Shield Enclosures** and click on link **PCB Mounting Hole Patterns**. Adhesive mount option provides quick installation, easy retrofit.



Through-hole mount – recommended hole size .050\" (1.27mm)  
Surface mount – pins formed w/ 90° outward bend,  
add “SM” suffix to the part #

Adhesive mount – no holes required

| PART No.   | Adhesive Mount | A         | B          | C         | D        | E         | Frequency Range   | Peak Frequency Attenuation |
|------------|----------------|-----------|------------|-----------|----------|-----------|-------------------|----------------------------|
| PS24MA24   | PS24MA24A      | 1.00 25,4 | 2.00 50,8  | .062 1,6  | .100 2,5 | .500 12,7 | 2.2 - 2.6 GHz     | 2.4 GHz @ -21.0 dB         |
| PS58MA24   | PS58MA24A      | 1.00 25,4 | 2.00 50,8  | .100 2,5  | .100 2,5 | .500 12,7 | 5.5 - 6.2 GHz     | 5.8 GHz @ -23.5 dB         |
| PS100MA24  | PS100MA24A     | 1.00 25,4 | 2.00 50,8  | .145 3,7  | .100 2,5 | .500 12,7 | 9.2 - 10.8 GHz    | 10.0 GHz @ -23.5 dB        |
| PS180MA24  | PS180MA24A     | 1.00 25,4 | 2.00 50,8  | .160 4,1  | .100 2,5 | .500 12,7 | 16.5 - 19.5 GHz   | 18.0 GHz @ -24.1 dB        |
| PS240MA24  | PS240MA24A     | 1.00 25,4 | 2.00 50,8  | .176 4,5  | .100 2,5 | .500 12,7 | 22.5 - 25.5 GHz   | 24.0 GHz @ -24.3 dB        |
| PS260MA24  | PS260MA24A     | 1.00 25,4 | 2.00 50,8  | .173 4,4  | .100 2,5 | .500 12,7 | 25.2 - 27.0 GHz   | 26.0 GHz @ -21.4 dB        |
| PS380MA24  | PS380MA24A     | 1.00 25,4 | 2.00 50,8  | .176 4,5  | .100 2,5 | .500 12,7 | 35.8 - 40.2 GHz   | 38.0 GHz @ -21.4 dB        |
| PS600MA24  | PS600MA24A     | 1.00 25,4 | 2.00 50,8  | .165 4,2  | .100 2,5 | .500 12,7 | 52.0 - 64.2 GHz   | 60.0 GHz @ -21.6 dB        |
| PS760MA24  | PS760MA24A     | 1.00 25,4 | 2.00 50,8  | .184 4,7  | .100 2,5 | .500 12,7 | 72.0 - 80.0 GHz   | 76.0 GHz @ -20.0 dB        |
| PS1100MA24 | PS1100MA24A    | 1.00 25,4 | 2.00 50,8  | .184 4,7  | .100 2,5 | .500 12,7 | 104.0 - 116.0 GHz | 110.0 GHz @ -21.2 dB       |
| PS24MA44   | PS24MA44A      | 2.00 50,8 | 3.00 76,2  | .262 6,7  | .120 3,0 | .500 12,7 | 2.2 - 2.6 GHz     | 2.4 GHz @ -21.0 dB         |
| PS58MA44   | PS58MA44A      | 2.00 50,8 | 3.00 76,2  | .300 7,6  | .120 3,0 | .500 12,7 | 5.5 - 6.2 GHz     | 5.8 GHz @ -23.5 dB         |
| PS100MA44  | PS100MA44A     | 2.00 50,8 | 3.00 76,2  | .345 8,8  | .120 3,0 | .500 12,7 | 9.2 - 10.8 GHz    | 10.0 GHz @ -23.5 dB        |
| PS180MA44  | PS180MA44A     | 2.00 50,8 | 3.00 76,2  | .360 9,1  | .120 3,0 | .500 12,7 | 16.5 - 19.5 GHz   | 18.0 GHz @ -24.1 dB        |
| PS240MA44  | PS240MA44A     | 2.00 50,8 | 3.00 76,2  | .376 9,6  | .120 3,0 | .500 12,7 | 22.5 - 25.5 GHz   | 24.0 GHz @ -24.3 dB        |
| PS260MA44  | PS260MA44A     | 2.00 50,8 | 3.00 76,2  | .373 9,5  | .120 3,0 | .500 12,7 | 25.2 - 27.0 GHz   | 26.0 GHz @ -21.4 dB        |
| PS380MA44  | PS380MA44A     | 2.00 50,8 | 3.00 76,2  | .376 9,6  | .120 3,0 | .500 12,7 | 35.8 - 40.2 GHz   | 38.0 GHz @ -21.4 dB        |
| PS600MA44  | PS600MA44A     | 2.00 50,8 | 3.00 76,2  | .365 9,3  | .120 3,0 | .500 12,7 | 52.0 - 64.2 GHz   | 60.0 GHz @ -21.6 dB        |
| PS760MA44  | PS760MA44A     | 2.00 50,8 | 3.00 76,2  | .384 9,8  | .120 3,0 | .500 12,7 | 72.0 - 80.0 GHz   | 76.0 GHz @ -20.0 dB        |
| PS1100MA44 | PS1100MA44A    | 2.00 50,8 | 3.00 76,2  | .384 9,8  | .120 3,0 | .500 12,7 | 104.0 - 116.0 GHz | 110.0 GHz @ -21.2 dB       |
| PS24MA59   | PS24MA59A      | 3.00 76,2 | 4.50 114,3 | .362 9,2  | .120 3,0 | .250 6,4  | 2.2 - 2.6 GHz     | 2.4 GHz @ -21.0 dB         |
| PS58MA59   | PS58MA59A      | 3.00 76,2 | 4.50 114,3 | .400 10,2 | .120 3,0 | .250 6,4  | 5.5 - 6.2 GHz     | 5.8 GHz @ -23.5 dB         |
| PS100MA59  | PS100MA59A     | 3.00 76,2 | 4.50 114,3 | .445 11,3 | .120 3,0 | .250 6,4  | 9.2 - 10.8 GHz    | 10.0 GHz @ -23.5 dB        |
| PS180MA59  | PS180MA59A     | 3.00 76,2 | 4.50 114,3 | .460 11,7 | .120 3,0 | .250 6,4  | 16.5 - 19.5 GHz   | 18.0 GHz @ -24.1 dB        |
| PS240MA59  | PS240MA59A     | 3.00 76,2 | 4.50 114,3 | .476 12,1 | .120 3,0 | .250 6,4  | 22.5 - 25.5 GHz   | 24.0 GHz @ -24.3 dB        |
| PS260MA59  | PS260MA59A     | 3.00 76,2 | 4.50 114,3 | .473 12,0 | .120 3,0 | .250 6,4  | 25.2 - 27.0 GHz   | 26.0 GHz @ -21.4 dB        |
| PS380MA59  | PS380MA59A     | 3.00 76,2 | 4.50 114,3 | .476 12,1 | .120 3,0 | .250 6,4  | 35.8 - 40.2 GHz   | 38.0 GHz @ -21.4 dB        |
| PS600MA59  | PS600MA59A     | 3.00 76,2 | 4.50 114,3 | .465 11,8 | .120 3,0 | .250 6,4  | 52.0 - 64.2 GHz   | 60.0 GHz @ -21.6 dB        |
| PS760MA59  | PS760MA59A     | 3.00 76,2 | 4.50 114,3 | .484 12,3 | .120 3,0 | .250 6,4  | 72.0 - 80.0 GHz   | 76.0 GHz @ -20.0 dB        |
| PS1100MA59 | PS1100MA59A    | 3.00 76,2 | 4.50 114,3 | .484 12,3 | .120 3,0 | .250 6,4  | 104.0 - 116.0 GHz | 110.0 GHz @ -21.2 dB       |

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[PS800EMC59](#) [PS400EMC59](#) [PS500EMC59](#) [PS100EMC59](#) [PS500EMC44](#) [PS100EMC44](#) [PS300EMC44](#)  
[PS400EMC44](#) [PS800EMC44](#) [PS100EMC24](#) [PS500EMC24](#) [PS300EMC24](#) [PS400EMC24](#) [PS800EMC24](#)  
[PS3200EMC44HA](#) [PS3200EMC44SM](#) [PS1100MA59A](#) [PS500EMC44SM](#) [PS100MA44A](#) [PS760MA44A](#)  
[PS260MA44A](#) [PS240MA44A](#) [PS600MA44A](#) [PS100EMC44SM](#) [PS1100MA44](#) [PS1100MA24](#) [PS1100MA59](#)  
[PS380MA44A](#) [PS180MA44A](#) [PS760MA44](#) [PS260MA44](#) [PS260MA24](#) [PS760MA24](#) [PS760MA59](#) [PS260MA59](#)  
[PS380MA24A](#) [PS180MA24A](#) [PS3200EMC44HSM](#) [PS3200EMC44A](#) [PS3200EMC44H](#) [PS24MA24A](#)  
[PS3200EMC24A](#) [PS3200EMC24H](#) [PS58MA59A](#) [PS24MA44A](#) [PS58MA44A](#) [PS3200EMC59A](#) [PS3200EMC59H](#)