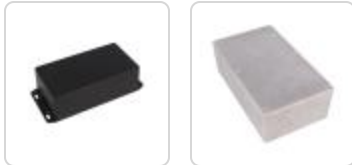


## Diecast Aluminum Enclosures *1590-RIBBED Series*

With Internal Ribs



### Features

- Rugged, diecast aluminum alloy (tough - yet easy to machine), electronic instrument enclosure.
- Lap joint construction provides protection against access of dust and splashing water.
- Unpainted version is vibra finished for a smooth surface with no sharp edges.
- Satin black painted version is painted with tough polyester powder paint for a lasting finish, even after machining. Black screws are included to enhance appearance.
- Includes screws threaded into factory-tapped holes. Screw type and quantity vary. See details below or in drawings.
- Standard versions are designed to meet IP54.
- Water-tight versions are designed to meet IP65 and include a gasket which is supplied loose inside the enclosure (not pre-installed).
- Low side wall draft angle (2 degrees or less) for easy P.C. board mounting.

### Hardware

**NOTE:** 1590 series enclosures feature factory-tapped assembly screw holes that accept machine screws, which are included with the enclosures.

#### Replacement Hardware



#### Tamper-proof Hardware Upgrade (Torx w/ Pin)



See "Hardware" table below for compatibility.

### Gaskets

**NOTE:** Gaskets are included with watertight 1590 enclosures. They can also be purchased as a kit if you'd like to upgrade an IP54 enclosure to IP65. Not available for all sizes.



- Each kit includes two pre-formed silicone gaskets.
- Gaskets include adhesive backing for easy installation.
- Allows enclosure to be machined and/or painted first and gasketed later.
- Gasket is applied to the lid.
- Designed to meet IP65 with properly installed gasket and lid screws torqued to 25-30 cN.m (36-43 ozf.in).
- Refer to part number table below for correct gasket.

| No Mounting Flanges |                     | w/ Flanged Lid   |                     | w/ Flanged Bottom Plate |                     | Color   | Length | Width | Depth | Optional Replacement Gasket Kit |
|---------------------|---------------------|------------------|---------------------|-------------------------|---------------------|---------|--------|-------|-------|---------------------------------|
| Standard Version    | Water-Tight Version | Standard Version | Water-Tight Version | Standard Version        | Water-Tight Version |         |        |       |       |                                 |
| 1590MM              |                     |                  |                     |                         |                     | Natural | 50     | 50    | 31    |                                 |
| 1590MMBK            |                     |                  |                     |                         |                     | Black   | 50     | 50    | 31    |                                 |
| 1590L               |                     |                  |                     | 1590LF                  |                     | Natural | 101    | 40    | 25    |                                 |
| 1590LBK             |                     |                  |                     |                         |                     | Black   | 101    | 40    | 25    |                                 |
| 1590M               |                     |                  |                     | 1590MF                  |                     | Natural | 112    | 63    | 31    |                                 |
| 1590MBK             |                     |                  |                     |                         |                     | Black   | 112    | 63    | 31    |                                 |
| 1590N               | 1590WN              | 1590NFL          | 1590WNFL            | 1590NF                  | 1590WNF             | Natural | 121    | 66    | 40    | 1590NGASKET                     |
| 1590NBK             | 1590WNBK            | 1590NFLBK        | 1590WNFLBK          | 1590NFBK                | 1590WNFBK           | Black   | 121    | 66    | 40    | 1590NGASKET                     |
| 1590PP              |                     |                  |                     |                         |                     | Natural | 121    | 85    | 61    |                                 |
| 1590PPBK            |                     |                  |                     |                         |                     | Black   | 121    | 85    | 61    |                                 |
| 1590P               | 1590WP              | 1590PFL          | 1590WPFL            | 1590PF                  | 1590WPF             | Natural | 153    | 83    | 50    | 1590PGASKET                     |
| 1590PBK             | 1590WPBK            | 1590PFLBK        | 1590WPFLBK          |                         | 1590WPFBK           | Black   | 153    | 83    | 50    | 1590PGASKET                     |
| 1590R               |                     |                  |                     | 1590RF                  |                     | Natural | 192    | 102   | 61    | 1590RGASKET                     |
| 1590RBK             |                     |                  |                     |                         |                     | Black   | 192    | 102   | 61    | 1590RGASKET                     |

NOTE: Dimensions include lid. Lid height is 4mm (0.16").

## Replacement Hardware

| Philips Head Machine Screws (100 or 50-packs) |           |             |             |                   | Torx with Pin Tamper-Resistant Screws (50-packs) |             |             |                   | Screwdriver Bit |
|-----------------------------------------------|-----------|-------------|-------------|-------------------|--------------------------------------------------|-------------|-------------|-------------------|-----------------|
| Size                                          | Natural   | Black       | Water Tight | Water-Tight Black | Natural                                          | Black       | Water Tight | Water-Tight Black |                 |
| 1590L                                         | 1550MS100 | 1550MS100BK | 1550WMS100  | 1550WMS100BK      | 1550MS50T                                        | 1550MS50TBK | 1550WMS50T  | 1550WMS50TBK      | SCDRIVET15-2    |
| 1590MM                                        | 1550MS100 | 1550MS100BK | 1550WMS100  | 1550WMS100BK      | 1550MS50T                                        | 1550MS50TBK | 1550WMS50T  | 1550WMS50TBK      | SCDRIVET15-2    |
| 1590M                                         | 1550MS100 | 1550MS100BK | 1550WMS100  | 1550WMS100BK      | 1550MS50T                                        | 1550MS50TBK | 1550WMS50T  | 1550WMS50TBK      | SCDRIVET15-2    |
| 1590N                                         | 1550MS100 | 1550MS100BK | 1550WMS100  | 1550WMS100BK      | 1550MS50T                                        | 1550MS50TBK | 1550WMS50T  | 1550WMS50TBK      | SCDRIVET15-2    |
| 1590PP                                        | 1550MS100 | 1550MS100BK | 1550WMS100  | 1550WMS100BK      | 1550MS50T                                        | 1550MS50TBK | 1550WMS50T  | 1550WMS50TBK      | SCDRIVET15-2    |
| 1590P                                         | 1550MS100 | 1550MS100BK | 1550WMS100  | 1550WMS100BK      | 1550MS50T                                        | 1550MS50TBK | 1550WMS50T  | 1550WMS50TBK      | SCDRIVET15-2    |
| 1590R                                         | 1550MS100 | 1550MS100BK | 1550WMS100  | 1550WMS100BK      | 1550MS50T                                        | 1550MS50TBK | 1550WMS50T  | 1550WMS50TBK      | SCDRIVET15-2    |

Tags: **diecast, die cast, electronic, board enclosure, screw down cover, stomp box, project box, flanged, bottom flange, flanged lid, partitioning, ribs, PCB mount** *Data subject to change without notice.*