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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. Also provides for improved EMI/RFI shielding.
- 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.
- 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.

Notes

- Lid height is 0.16" (4 mm).

| No Mounting Flanges | | w/ Flanged Lid | | w/ Flanged Bottom Plate | | Color | Length | Width | Height (Less Lid) | Optional Replacement Gasket Kit |
|---------------------|------------------------|---------------------|------------------------|-------------------------|------------------------|---------|--------|-------|----------------------|---------------------------------------|
| Standard Version | Water-Tight Version | Standard Version | Water-Tight Version | Standard Version | Water-Tight Version | | | | | |
| 1590MM | | | | | | Natural | 1.97 | 1.97 | 1.06 | |
| 1590MMBK | | | | | | Black | 1.97 | 1.97 | 1.06 | |
| 1590L | | | | 1590LF | | Natural | 3.96 | 1.98 | 0.83 | |
| 1590LBK | | | | | | Black | 3.96 | 1.98 | 0.83 | |
| 1590M | | | | 1590MF | | Natural | 4.48 | 2.49 | 1.06 | |
| 1590MBK | | | | | | Black | 4.48 | 2.49 | 1.06 | |
| 1590N | 1590WN | 1590NFL | 1590WNFL | 1590NF | 1590WNF | Natural | 4.75 | 2.61 | 1.42 | |
| 1590NBK | 1590WNBK | 1590NFLBK | 1590WNFLBK | 1590NFBK | 1590WNFBK | Black | 4.75 | 2.61 | 1.42 | |
| 1590PP | | | | | | Natural | 4.76 | 3.74 | 2.24 | |
| 1590PPBK | | | | | | Black | 4.76 | 3.74 | 2.24 | |
| 1590P | 1590WP | 1590PFL | 1590WPFL | 1590PF | 1590WPF | Natural | 6.01 | 3.24 | 1.81 | 1590PGASKET |
| 1590PBK | 1590WPBK | 1590PFLBK | 1590WPFLBK | | 1590WPFBK | Black | 6.01 | 3.24 | 1.81 | 1590PGASKET |
| 1590R | | | | 1590RF | | Natural | 7.55 | 4.38 | 2.24 | 1590RGASKET |
| 1590RBK | | | | | | Black | 7.55 | 4.38 | 2.24 | 1590RGASKET |

Replacement Hardware

| Size | Philips Head Machine Screws (100 or 50-packs) | | | | Torx with Pin Tamper-Resistant Screws (50-packs) | | | | |
|--------|---|-------------|----------------|----------------------|--|-------------|----------------|----------------------|--------------------|
| | Natural | Black | Water Tight | Water-Tight Black | Natural | Black | Water Tight | Water-Tight Black | Screwdriver Bit |
| 1590L | 1550MS100 | 1550MS100BK | 1550WMS100 | 1550WMS100BK | 1550MS50T | 1550MS50TBK | 1550WMS50T | 1550WMS50TBK | SCDRIVET15-2 |
| 1590MM | 1590MS100 | 1590MS50BK | 1590WMS100 | 1590WMS100BK | 1590MS50T | 1590MS50TBK | 1590WMS50T | 1590WMS50TBK | SCDRIVET10-2 |
| 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 |

Data subject to change without notice

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