

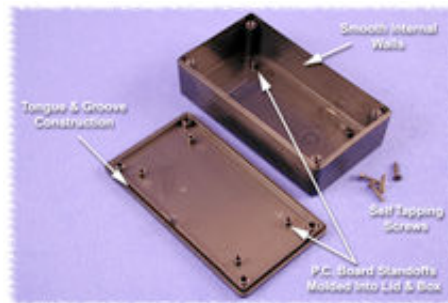
Multipurpose Plastic Enclosures (1591XX "S" Series) Economical Version



**Assembled View
(Top)**



**Assembled View
(Bottom)**



Open View

Key Features:

- Ideally suited for mounting printed circuit boards horizontally. If you prefer vertical board mount (using our internally ribbed enclosures) - link to our [1591 "S" series](#)).
- Internal sides of enclosure are smooth for easy connector installation (see photos) - except for the largest enclosure the 1591XXFSBK which is a universal type (ie...includes P.C.board standoffs in the lid and enclosure PLUS includes card guides). See drawing and/or photo tables for more details.
- Strong - tongue and groove lid to box construction provides protection against access of dust and splashing water.
- Designed to meet IP54.
- Lid and box both contain - molded in PC board standoffs.
- Molded from easy to machine, economical black plastic, with a satin texture.
- Link here to our [flame retardant ABS plastic version](#) of these enclosures.
- Lid is secured with black self-tapping #4 x 0.5" philips screws.

Part Number	Color	PDF Reader File	AutoCAD .dwg Files (zipped)	3D Solid Model .igs & .stp files (zipped)	Units	Length	Width	Enclosure Depth (Less Lid)
1591XXMSBK	Black	 376K	 214K	 640K	Inches	3.3	2.2	0.8
					mm	85	56	21
1591XXLSBK	Black	 233K	 276K	 655K	Inches	3.4	2.2	1.4
					mm	87	57	36
1591XXASBK	Black	 228K	 187K	 609K	Inches	3.9	2.0	0.8
					mm	100	51	22
1591XXSSBK	Black	 233K	 249K	 656K	Inches	4.3	3.2	1.6
					mm	110	82	40
1591XXBSBK	Black	 188K	 279K	 670K	Inches	4.4	2.5	1.1
					mm	113	63	28
1591XXCSBK	Black	 189K	 270K	 670K	Inches	4.7	2.6	1.4
					mm	121	66	37
1591XXTSBK	Black	 187K	 312K	 670K	Inches	4.8	3.2	2.2
					mm	123	83	56
1591XXGSBK	Black	 265K	 201K	 654K	Inches	4.8	3.7	1.2
					mm	121	94	30
1591XXDSBK	Black	 184K	 300K	 668K	Inches	6.0	3.2	1.8
					mm	152	82	47
1591XXESBK	Black	 219K	 388K	 803K	Inches	7.6	4.4	2.2
					mm	193	113	58
1591XXFSBK	Black	 229K	 209K	 685K	Inches	8.7	5.9	2.3
					mm	221	150	60

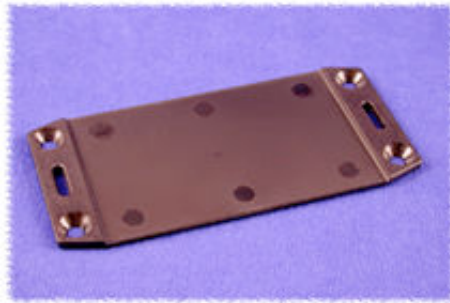
NOTES:

- Add lid thickness of 0.12" (3 mm) to enclosure depth for total outside depth.
- Average wall thickness is 2 mm (.079") - except 1591XXSFBK - 3.1 mm (.124")
- Accessory screws for mounting P.C. boards into standoffs (#4 x 1/4" pan head) P/N **1593ATS50** (qty. 50), P/N **1593ATS100** (qty. 100).
- Internal construction is different for the 1591XXSFBK size (ie...includes P.C.board standoffs in the lid and enclosure PLUS includes card guides (see drawing and/or photo tables for more details).
- Link here to our [flanged lid version](#)

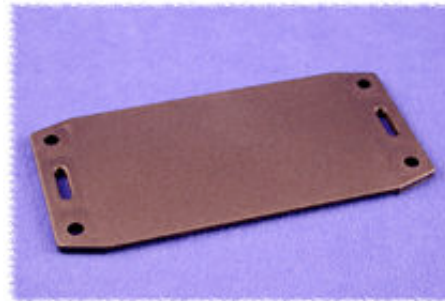
Accessories

Bottom Flange Kits:

Top View



Bottom View



Replacement Screws:

- Accessory screws for mounting P.C. boards into standoffs (#4 x 1/4" pan head) P/N **1593ATS50** (qty. 50), P/N **1593ATS100** (qty. 100).

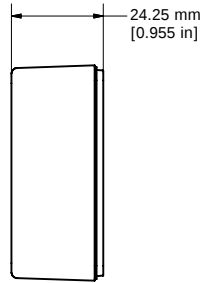
Belt / Pocket Clip Option:



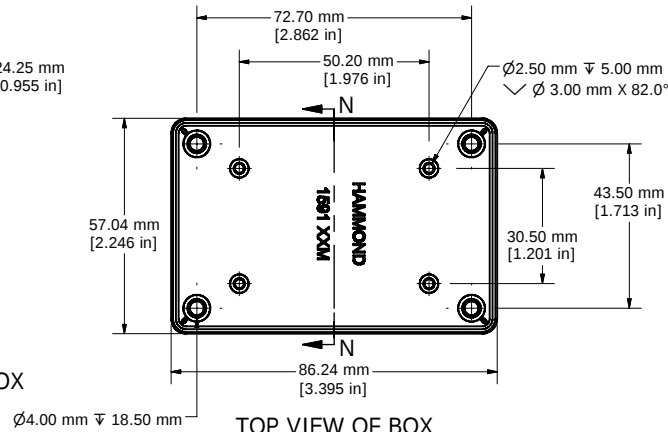
- Molded from tough nylon (choice of Black or Grey).
- Includes 2 nylon screws (insulated to avoid internal interference).
- Mounting template included.

Black - Part Number **1599CLIP**
Grey - Part Number **1599CLIPGY**

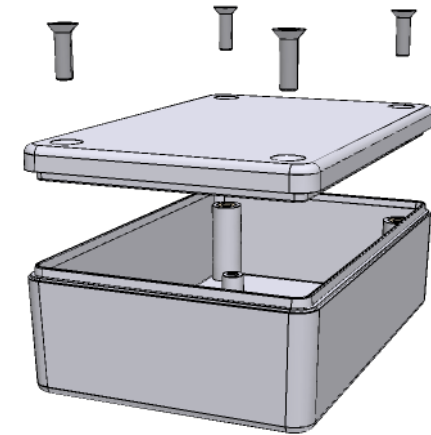
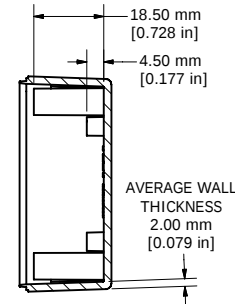
SIDE VIEW OF BOX



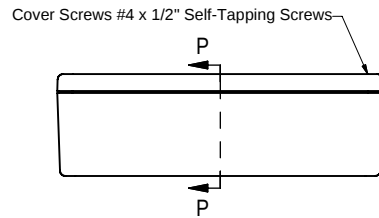
TOP VIEW OF BOX



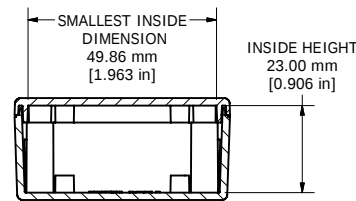
SECTION N-N



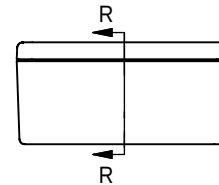
SIDE VIEW OF ENCLOSURE



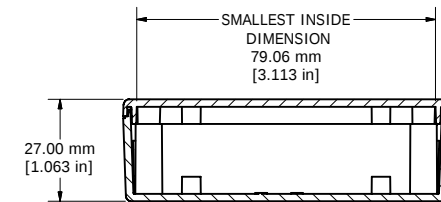
SECTION P-P



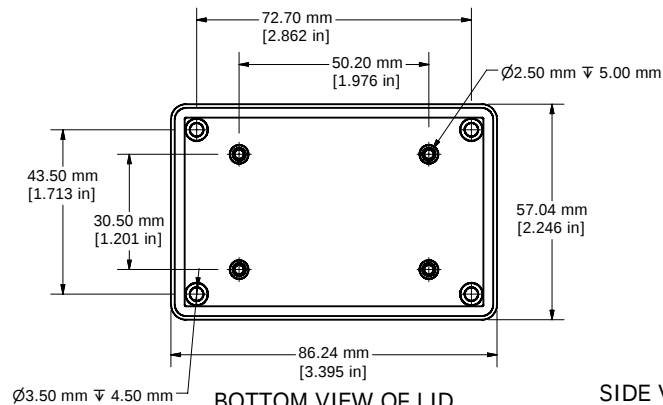
END VIEW OF ENCLOSURE



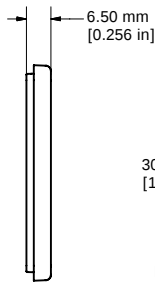
SECTION R-R



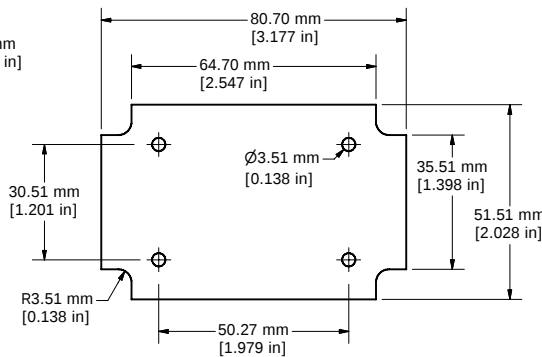
BOTTOM VIEW OF LID



SIDE VIEW OF LID



MAX PC BOARD SIZE (NOT INCLUDED)



Enclosures can be Factory Modified (Milling, Drilling, Printing etc.)
Solid models of this enclosure available in STEP or IGES.
Contact Factory mjm@hammondmfg.com

NOTE		
Enclosure molded from GRABS UL 94-HB Plastic.		
No Brass Inserts Included		
Other materials / colours available consult factory.		
1591XXMS		
1591XXMS Box Enclosure		
Black Enclosure - RAL 7011	1591XXMSBK	
Gray Enclosure - RAL 7035	1591XXMSGY	
ACCESSORIES		
Lid Screws self-tapping Black	1591TS100BK (Pkg 100)	
Lid Screws self-tapping Standard	1591TS100 (Pkg 100)	
P.C. Board Screws (All Boxes)		
P.C. Board Screws	1593ATS50 (Pkg 50)	
#4 x 1/4" self-tapping (6.4mm)	1593ATS100 (Pkg 100)	

HAMMOND
MANUFACTURING™
1591XXMS
www.hammondmfg.com