PRODUCT DATASHEET REV 1



BOX2-P14

Handheld plastic enclosure for up to three Size1 and Size2 PCBs



AVAILABLE STYLES:

GREY

PART#:

BOX2-P14-GY

BLACK

PART#:

BOX2-P14-BK

TRANSPARENT RED

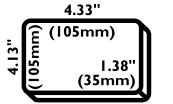
> PART#: BOX2-P14-RT

TRANSPARENT

PART#: BOX2-P14-BT

BOX2-P14 Features:

- Electronic instrument enclosure fits a combination of up to three Size1 & Size2 PCBs.
- ABS plastic construction with removable end panels.
- Recessed top for adhesive overlay or membrane keypad.
- Smooth top for clear display readability with transparent enclosures.
- Textured finish hides fingerprints.
- Self-tapping screws provided for securing enclosure.





BOX2-P14 Details:

The BOX2-P14 is a handheld electronic instrument enclosure constructed from ABS plastic. A combination of up to three Size1 PCBs ($80 \times 50 \text{mm} / 3.15 \times 1.97$ ") and Size2 PCBs ($100 \times 80 \text{mm} / 3.94 \times 3.15$ ") can be installed with the built-in PCB standoffs, with configuration options shown below.

The plastic enclosure is easy to drill and features a textured finish that hides fingerprints and provides additional grip. Two removable end panels can be drilled for connectors.

The enclosure's top panel features a recessed top for an adhesive overlay or membrane keypad. The recessed top on the transparent red and blue enclosure have a clear smooth finish designed for easy viewing of displays.



Lap joint construction provides an IP54 protection rating against dust accumulation and splashing water. Self-tapping screws provided to close the enclosure. Black and transparent blue enclosures come with black screws while grey and transparent red come with nickel finish screws. PCB standoffs use standard 4-40 0.25" machine screws (not provided).

PCB Configuration Options:



Option #1 - Two PCBs
Two Size2 PCBs



Option #2 - Three PCBs Two Size1 PCBs + Single Size2 PCB



Option #3 - Two PCBs Single Size1 PCB + Single Size2 PCB

Related Products:



BOX1-P14



KBOX2-AL-PR2H



KIT-1553B



KBOX1-AC-PR2H

Color Options:



Black (BOX2-P14-BK)



Grey (BOX2-P14-GY)

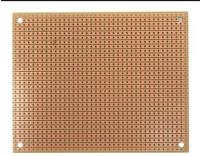


Transparent Red (BOX2-P14-RT)

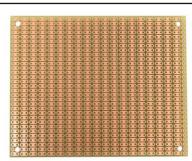


Transparent Blue (BOX2-P14-BT)

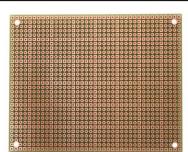
Compatible BusBoard PCBs:



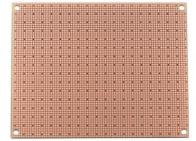
StripBoard ST1 ST2



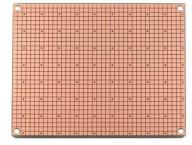
2-Hole ProtoBoard PR2H1 PR2H2



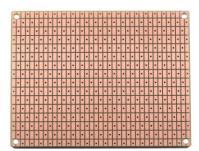
PadBoard PAD1 PAD2



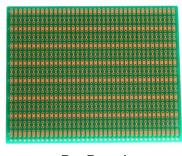
50mil SMTpads SP1-50x50-G SP2-50x50-G SP2-50x50-2S



100mil SMTpads SP1-100x100-G SP2-100x100-G



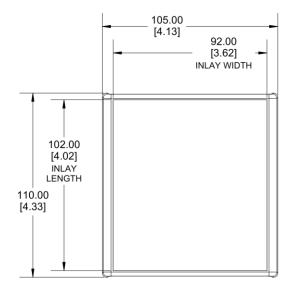
200mil SMTpads SP1-200x100-G SP2-200x100-G

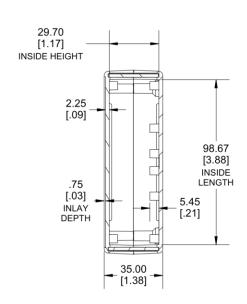


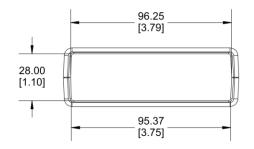
BusBoard BB2

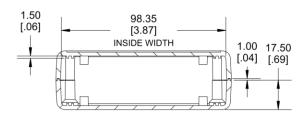


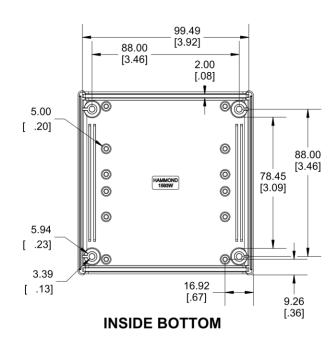
BOX2-P14 Details:

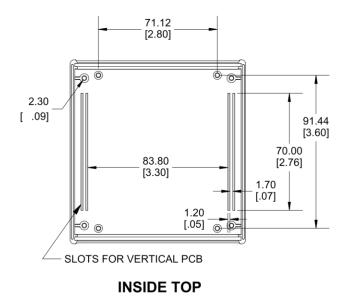


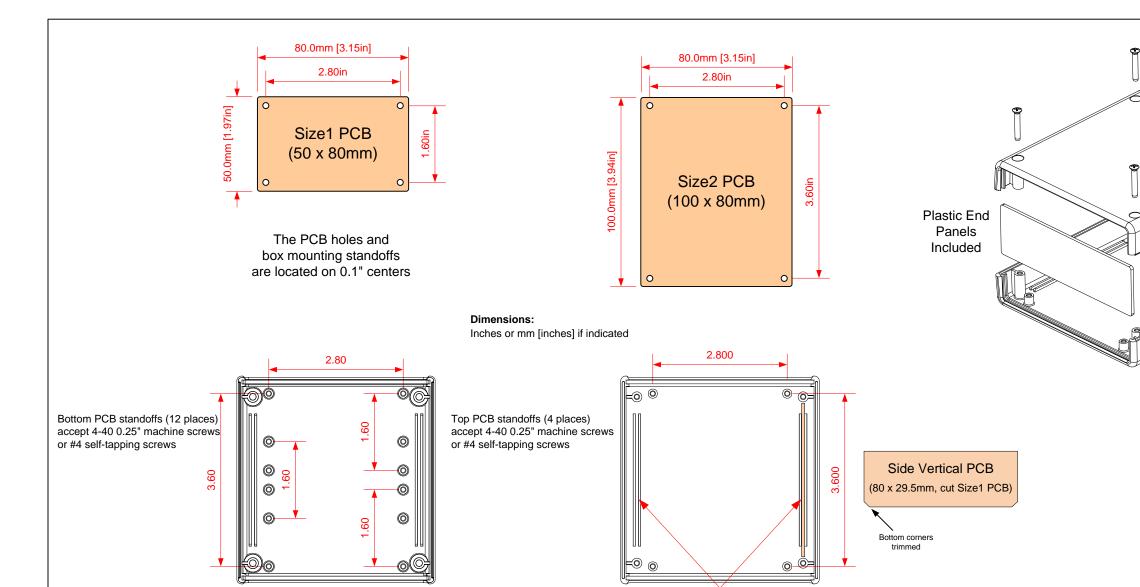












BOX2 is designed to fit

BusBoard Size1 and Size2

prototyping PCBs.

The top holds one Size2 PCB.

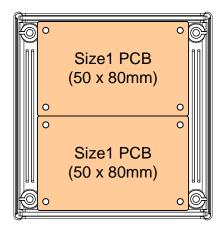
The bottom holds one Size2 PCB,

or one or two Size1 PCBs.

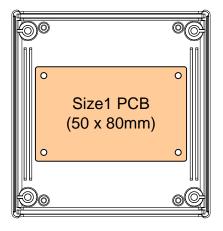
INSIDE BOTTOM

Size2 PCB (100 x 80mm)

INSIDE BOTTOM With a Size2 PCB



INSIDE BOTTOM With two Size1 PCBs

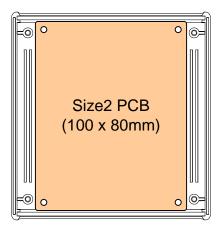


Two Slots to Hold Vertical

Side PCBs (Optional)

INSIDE TOP

INSIDE BOTTOM With a Size1 PCB (centered)



Compatible Size1 proto-boards include:

PAD1. PR2H1, ST1, SP1-NxN

Compatible Size2 proto-boards include:

BB2*, PAD2. PR2H2, ST2, SP2-NxN * Mounting holes must be drilled for BB2.

> **INSIDE TOP** With a Size2 PCB

Available Color Codes GY=Grey BK=Black RT=Red Transparent BT=Blue Transparent

Rev.	Date	ECO # (Description)	Appr'd		
1.00	3Mar20	Original	SK		



Scale

Unless otherwise specified, all dimensions are in inches and apply after finish. Dimensions in brackets, if given, are in millimeters and are for reference only.

	Tolerances						
.x	.xx	.xxx	Angles	Hole Dia.			

Material

ABS Plastic

Finish

Matte Textured Finish Polished Window on Transparent Boxes

Designed	Date
Scot Kornak, L. Walsh	19 Jun 2019
Drawn	Date
Scot Kornak, L. Walsh	29 Feb 2020
Checked	Date
Scot Kornak	3 Mar 2020
Released	Date
Scot Kornak	3 Mar 2020



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Classification

Released to Public

Title

Box2-P14 (Size2) **PCB Mounting Dimensions And Configurations**

Drawing Number - Revision

BPS-(BOX2-P14)-DWG-0001 Rev 1.00

Drawing is for Part Number - Revision

BOX2-P14-[Color] BPS-(Box2-P14)-DWG-0002 Rev 1.00 PCB Sheet 1 of 1