Translucent Polycarbonate (1591 Series)





Molded in Flame Retardant Polycarbonate

KEY FEATURES

- Electronic instrument enclosures, designed for mounting printed circuit boards.
- Ideally suited for modern styling or where internal components need to be visible.
- Molded in flame retardant translucent polycarbonate (material carries a UL flammability rating of 94V-0).
- Integral card guides accept 1.5 mm (0.062") P.C. cards.
- Lap joint construction provides protection against access of dust and splashing water.
- Designed to meet IP54
- Molded from translucent, ice blue or infrared translucent red polycarbonate. Visit our web site for color & detail photos of each part.
- Lid is secured with M3 x 10 mm Philips machine screws, threaded into tapped integral brass bushings.

ACCESSORIES



P.C. Board Card Adaptors

Allows horizontal mounting of P.C. board(s). **See "Accessories Section" for full details!**

1591Z6 - Package of 6
1591Z50 - Package of 50
1591Z100 - Package of 100



Replacement Screws

Machine screws, nickel plated, M3 - 0.5 x 10mm

1591MS100 - Package of 100



Flange Kits

Mount to either the rear (using glue) or can be attached to the lid using existing lid screws and holes. **See "Accessories Section" for full details!**



Belt or Pocket Clip

Molded from tough nylon, includes 2 nylon screws and mounting template.

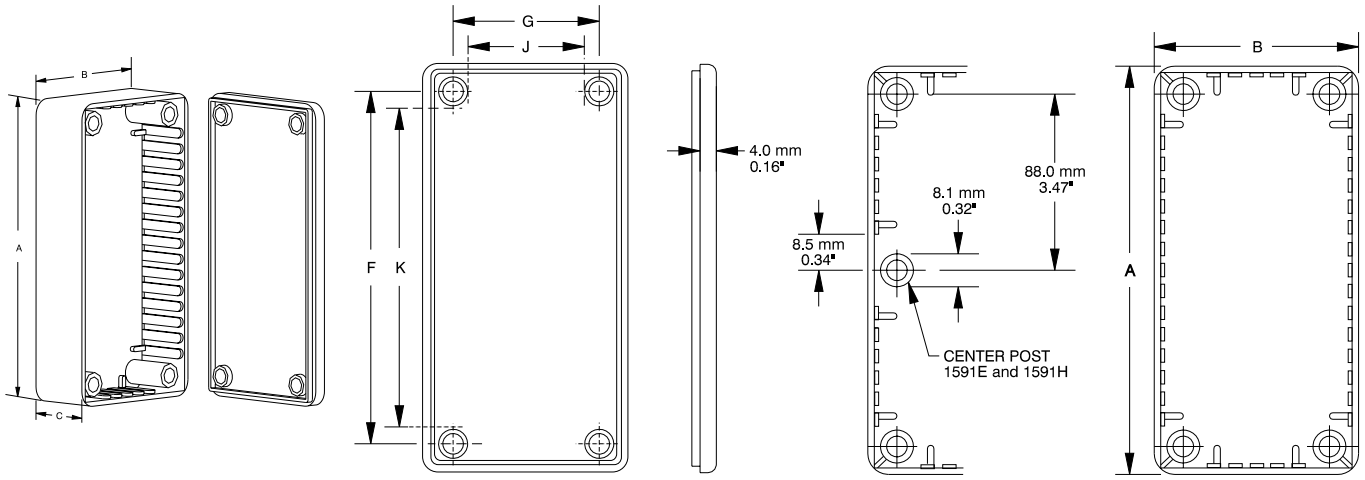
1599CLIP - Black
1599CLIPGY - Grey

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Translucent Polycarbonate (1591 Series)

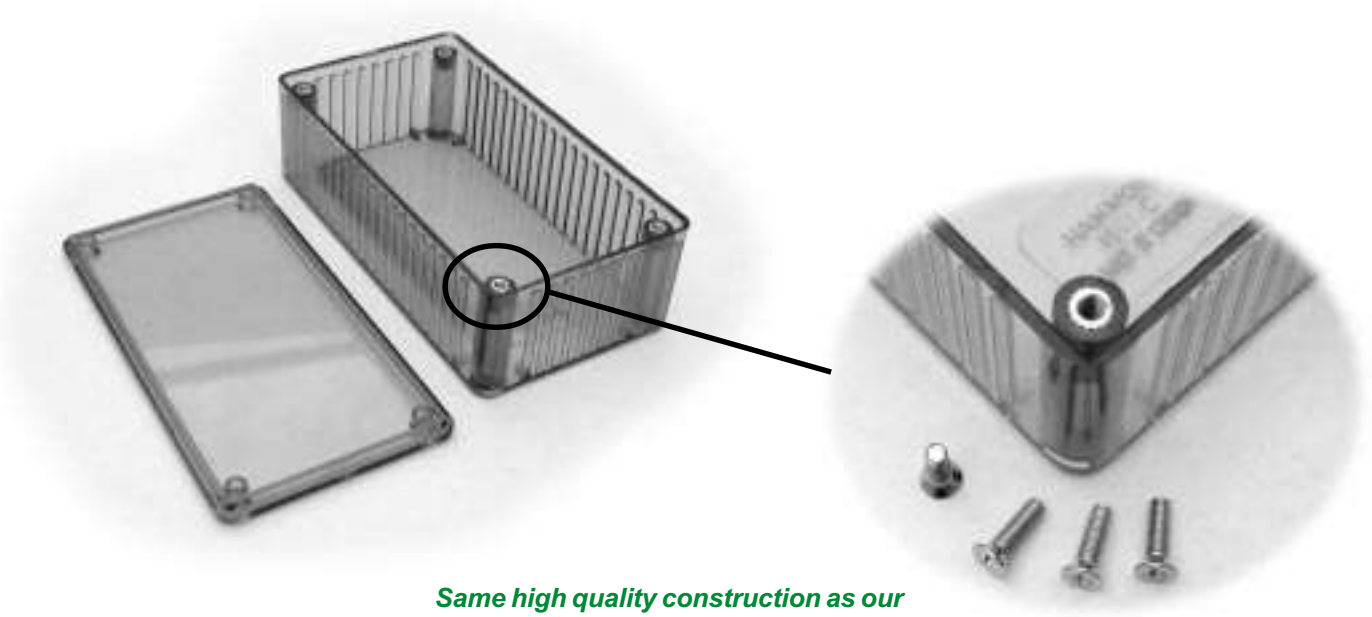


Lid (Inside & Edge View)

Top View

Part Number		Units	Dimensions					P.C. Card Clearance	
Ice Blue	IR Red		A	B	C (No Lid)	F	G	J	K
1591ATBU	1591ATRD	inch	3.9	2.0	0.8	3.4	1.4	1.1	3.1
		mm	100	50	21	86	36	29	79
1591BTBU	1591BTRD	inch	4.4	2.4	1.1	3.9	1.9	1.6	3.5
		mm	112	62	27	98	48	41	91
1591CTBU	1591CTRD	inch	4.7	2.6	1.4	4.2	2.0	1.7	3.9
		mm	120	65	36	106	51	44	99
1591DTBU	1591DTRD	inch	5.9	3.2	1.8	5.4	2.6	2.3	5.0
		mm	150	80	46	136	66	59	129
1591ETBU	1591ETRD	inch	7.5	4.3	2.2	6.9	3.8	3.5	6.6
		mm	191	110	57	176	96	89	170

NOTES: - Assembled height = dimension “C” + 0.16” (4.0 mm)
- Average wall thickness: 0.06” (1.5 mm)



Same high quality construction as our ABS plastic series (brass inserts & machine screws) for repetitive assembly & disassembly...

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General Purpose - ABS (1591 Series)





Molded in Flame Retardant ABS

OTHER KEY FEATURES

- Electronic instrument enclosures, designed for mounting printed circuit boards.
- Integral card guides accept 1.5 mm (0.062") P.C. cards. 1591E includes a removable center brace.
- Two piece lap joint construction provides protection against access of dust and splashing water.
- Designed to meet IP54
- Molded from flame retardant ABS plastic (material carries a UL flammability rating of 94V-0).
- Lid is secured with M3 x 10 mm Philips machine screws, threaded into integral brass bushings.

ACCESSORIES



P.C. Board Card Adaptors
Allows horizontal mounting of P.C. board(s). **See "Accessories Section" for full details!**
1591Z6 - Package of 6
1591Z50 - Package of 50
1591Z100 - Package of 100



Replacement Screws
Machine screws, nickel plated, M3 - 0.5 x 10mm
1591MS100 - Package of 100



Flange Kits
Mount to either the rear (using glue) or can be attached to the lid using existing lid screws and holes. **See "Accessories Section" for full details!**



Clear Lids
Stocked in prototype quantities - made of clear, flame retardant polycarbonate. Lid ONLY.
1591LC - use with 1591L & M
1591AC - use with 1591A
1591BC - use with 1591B
1591CC - use with 1591C
1591DC - use with 1591D
1591EC - use with 1591E
1591GC - use with 1591G
1591HC - use with 1591H
1591SC - use with 1591S
1591TC - use with 1591T
1591UC - use with 1591U
1591VC - use with 1591V



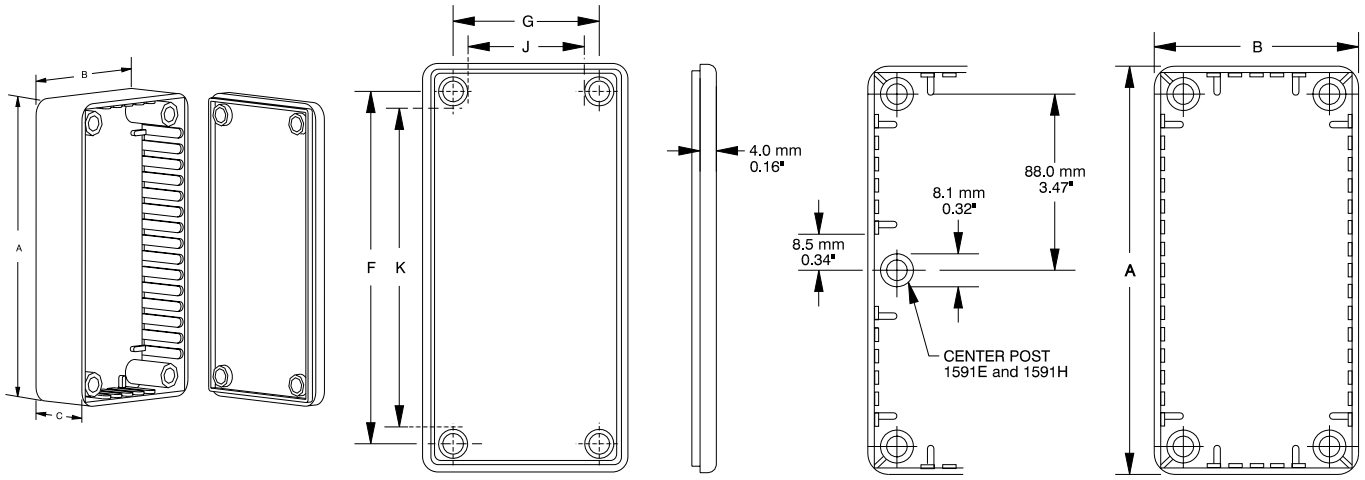
Belt or Pocket Clip
Molded from tough nylon, includes 2 nylon screws and mounting template.
1599CLIP - Black
1599CLIPGY - Grey

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General Purpose - ABS (1591 Series)



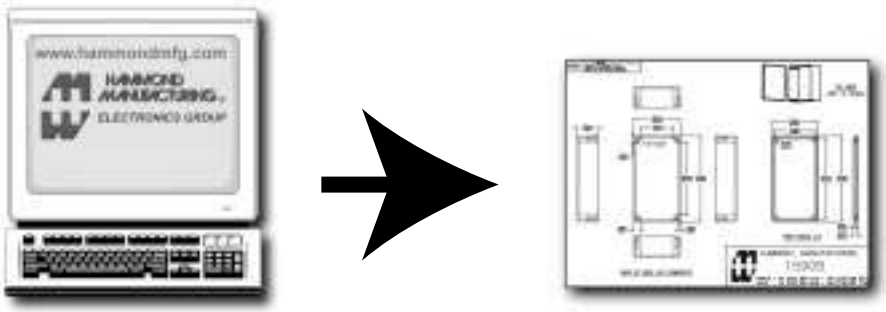
Lid (Inside & Edge View)

Top View

Part Number					Units	Dimensions					P.C. Card Clearance	
Beige	Black	Blue	Grey	Black Shielded		A	B	C (No Lid)	F	G	J	K
1591MBG	1591MBK	1591MBU	1591MGY	1591RMBK	inch	3.3	2.2	0.8	2.8	1.7	1.3	2.5
					mm	85	56	21	71	42	34	63
1591LBG	1591LBK	1591LBU	1591LGY	1591RLBK	inch	3.3	2.2	1.4	2.9	1.7	1.4	2.5
					mm	85	56	35	73	44	35	64
1591ABG	1591ABK	1591ABU	1591AGY	1591RABK	inch	3.9	2.0	0.8	3.4	1.4	1.1	3.1
					mm	100	50	21	86	36	29	79
1591SBG	1591SBK	1591SBU	1591SGY	1591RSBK	inch	4.3	3.2	1.6	3.8	2.7	2.4	3.5
					mm	110	82	40	98	70	61	89
1591BBG	1591BBK	1591BBU	1591BGY	1591RBBK	inch	4.4	2.4	1.1	3.9	1.9	1.6	3.5
					mm	112	62	27	98	48	41	91
1591CBG	1591CBK	1591CBU	1591CGY	1591RCBK	inch	4.7	2.6	1.4	4.2	2.0	1.7	3.9
					mm	120	65	36	106	51	44	99
1591TBG	1591TBK	1591TBU	1591TGY	1591RTBK	inch	4.7	3.2	2.2	4.2	2.6	2.3	3.9
					mm	120	80	55	106	66	59	99
1591UBG	1591UBK	1591UBU	1591UGY	1591RUBK	inch	4.7	4.7	2.2	4.2	4.2	3.9	3.9
					mm	120	120	55	106	106	99	99
1591VBG	1591VBK	1591VBU	1591VGY	1591RVBK	inch	4.7	4.7	3.5	4.2	4.2	3.9	3.9
					mm	120	120	90	106	106	99	99
1591GBG	1591GBK	1591GBU	1591GGY	1591RGBK	inch	4.8	3.7	1.2	4.2	3.1	2.8	3.9
					mm	121	94	30	106	79	73	100
1591DBG	1591DBK	1591DBU	1591DGY	1591RDBK	inch	5.9	3.2	1.8	5.4	2.6	2.3	5.0
					mm	150	80	46	136	66	59	129
1591HBG	1591HBK	1591HBU	1591HGY	1591RHBK	inch	6.5	2.8	1.0	6.0	2.2	1.9	5.6
					mm	165	71	25	153	56	50	144
1591EBG	1591EBK	1591EBU	1591EGY	1591REBK	inch	7.5	4.3	2.2	6.9	3.8	3.5	6.6
					mm	191	110	57	176	96	89	170

NOTES: - Assembled height = dimension “C” + 0.16” (4.0 mm)
- Average wall thickness: 0.06” (1.5 mm)

For detailed drawings, CAD files and color photos visit our website at:
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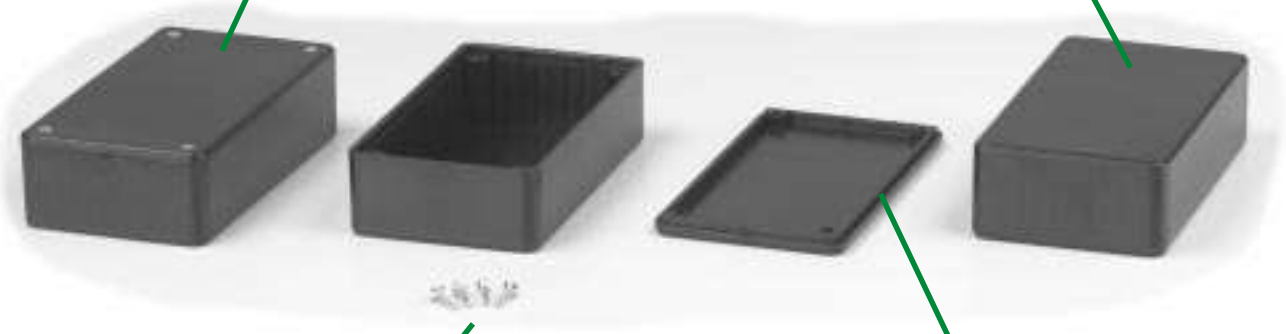


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General Purpose - Polystyrene (1591 Series)



OTHER KEY FEATURES

- Electronic instrument enclosures, designed for mounting printed circuit boards.
- Integral card guides accept 1.5 mm (0.062") P.C. cards. 1591E includes a removable center brace.
- Lap joint construction provides protection against access of dust and splashing water.
- Designed to meet IP54
- Molded from economical black polystyrene.
- Lid is secured with self-tapping #4 x 0.5" Philips screws.

ACCESSORIES



P.C. Board Card Adaptors

Allows horizontal mounting of P.C. board(s). **See "Accessories Section" for full details!**

1591Z6 - Package of 6
1591Z50 - Package of 50
1591Z100 - Package of 100



Flange Kits

Mount to either the rear (using glue) or can be attached to the lid using existing lid screws and holes. **See "Accessories Section" for full details!**



Belt or Pocket Clip

Molded from tough nylon, includes 2 nylon screws and mounting template.

1599CLIP - Black
1599CLIPGY - Grey



Replacement Screws

Self-tapping type, black anodized, #4 x 0.5"

1591TS100BK - Package of 100



Clear Lids

Stocked in prototype quantities - made of clear, flame retardant polycarbonate. Lid ONLY.

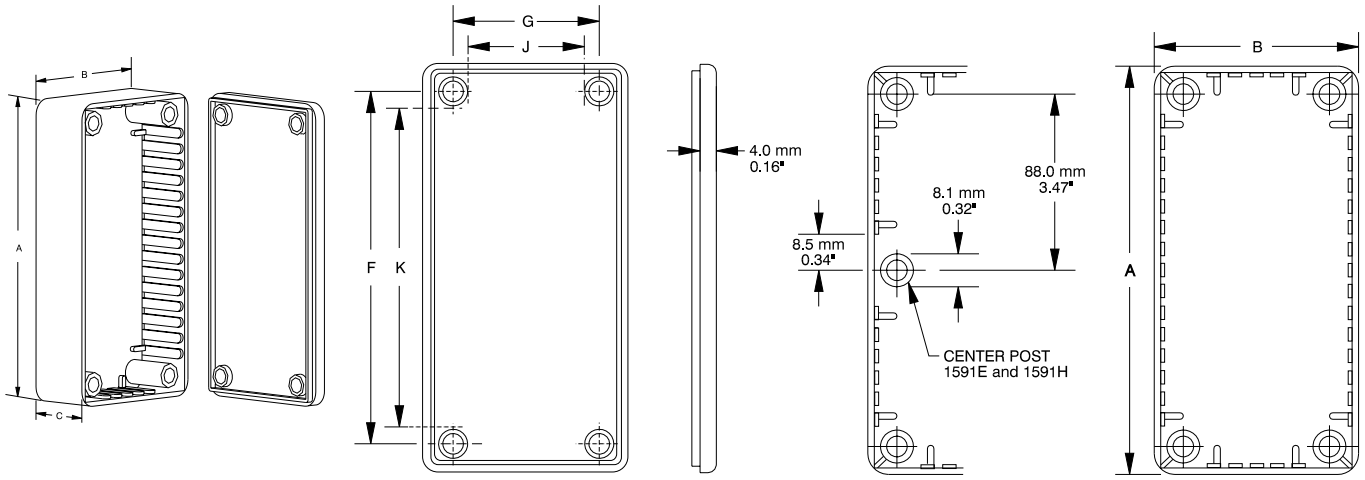
1591LC - use with 1591L & M
1591AC - use with 1591A
1591BC - use with 1591B
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1591GC - use with 1591G
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1591UC - use with 1591U
1591VC - use with 1591V

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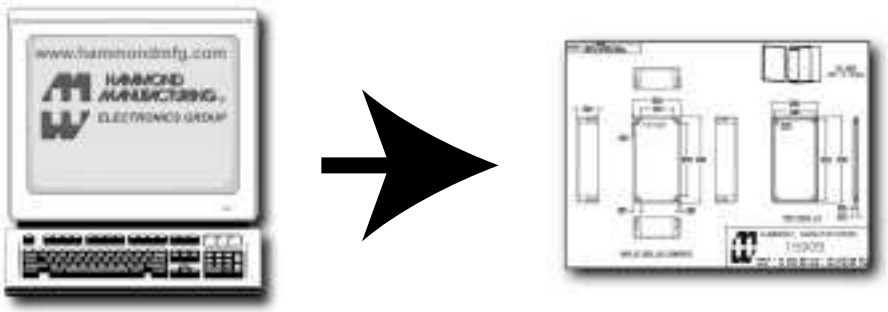
Lid (Inside & Edge View)

Top View

Part Number	Units	Dimensions					P.C. Card Clearance	
Black Styrene		A	B	C (No Lid)	F	G	J	K
1591MSBK	inch	3.3	2.2	0.8	2.8	1.7	1.3	2.5
	mm	85	56	21	71	42	34	63
1591LSBK	inch	3.3	2.2	1.4	2.9	1.7	1.4	2.5
	mm	85	56	35	73	44	35	64
1591ASBK	inch	3.9	2.0	0.8	3.4	1.4	1.1	3.1
	mm	100	50	21	86	36	29	79
1591SSBK	inch	4.3	3.2	1.6	3.8	2.7	2.4	3.5
	mm	110	82	40	98	70	61	89
1591BSBK	inch	4.4	2.4	1.1	3.9	1.9	1.6	3.5
	mm	112	62	27	98	48	41	91
1591CSBK	inch	4.7	2.6	1.4	4.2	2.0	1.7	3.9
	mm	120	65	36	106	51	44	99
1591TSBK	inch	4.7	3.2	2.2	4.2	2.6	2.3	3.9
	mm	120	80	55	106	66	59	99
1591USBK	inch	4.7	4.7	2.2	4.2	4.2	3.9	3.9
	mm	120	120	55	106	106	99	99
1591VSBK	inch	4.7	4.7	3.5	4.2	4.2	3.9	3.9
	mm	120	120	90	106	106	99	99
1591GSBK	inch	4.8	3.7	1.2	4.2	3.1	2.8	3.9
	mm	121	94	30	106	79	73	100
1591DSBK	inch	5.9	3.2	1.8	5.4	2.6	2.3	5.0
	mm	150	80	46	136	66	59	129
1591HSBK	inch	6.5	2.8	1.0	6.0	2.2	1.9	5.6
	mm	165	71	25	153	56	50	144
1591ESBK	inch	7.5	4.3	2.2	6.9	3.8	3.5	6.6
	mm	191	110	57	176	96	89	170

NOTES: - Assembled height = dimension “C” + 0.16” (4.0 mm)
- Average wall thickness: 0.08” (2.0 mm)

For detailed drawings, CAD files and color photos visit our website at:
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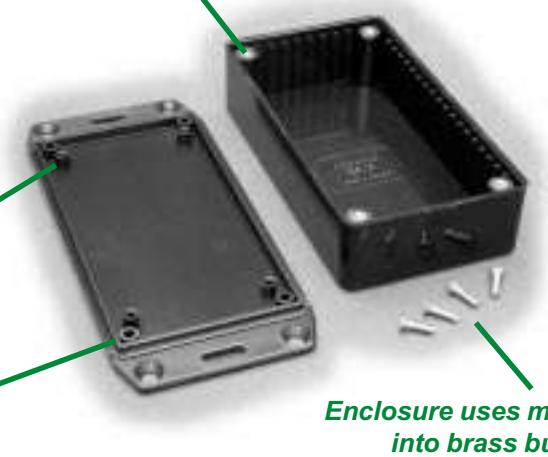


Flanged Lid Version - ABS (1591 Series)



Molded in Flame Retardant ABS





Brass bushings for repetitive assembly and disassembly...

P.C. board standoffs molded into lid...

Lap joint construction...

Enclosure uses machine screws into brass bushings...

OTHER KEY FEATURES

- Electronic instrument enclosures, designed for mounting printed circuit boards.
- Designed for applications where the enclosure needs to be easily wall or shelf mounted.
- Perfect where extra enclosure security is required by restricting access to lid screws.
- Integral card guides accept 1.5 mm (0.062") P.C. cards. 1591E includes a removable center brace.
- Lap joint construction provides protection against access of dust and splashing water.
- Designed to meet IP54
- Molded from flame retardant ABS plastic (material carries a UL flammability rating of 94V-0).
- Lid is secured with M3 x 10 mm Philips machine screws, threaded into integral brass bushings.

ACCESSORIES



P.C. Board Card Adaptors

Allows horizontal mounting of P.C. board(s). **See "Accessories Section" for full details!**

1591Z6 - Package of 6
1591Z50 - Package of 50
1591Z100 - Package of 100



P.C. Board Screws

Self-tapping type, used for bosses in the 1591 lid for P.C. board installation. #4 x 1/4" (6.4 mm)

1593ATS50 - Package of 50
1593ATS100 - Package of 100



Replacement Screws

Machine screws, nickel plated, M3 - 0.5 x 10mm

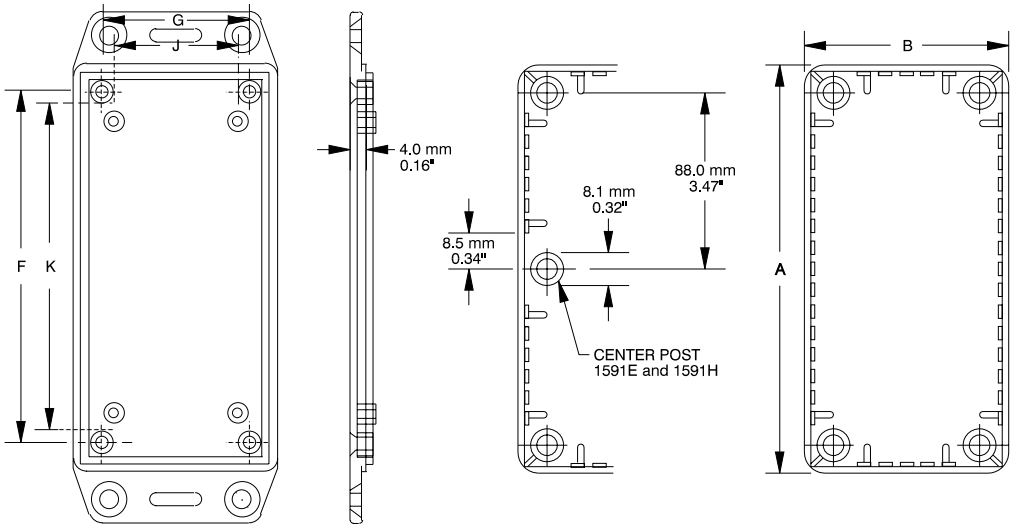
1591MS100 - Package of 100

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Flanged Lid Version - ABS (1591 Series)



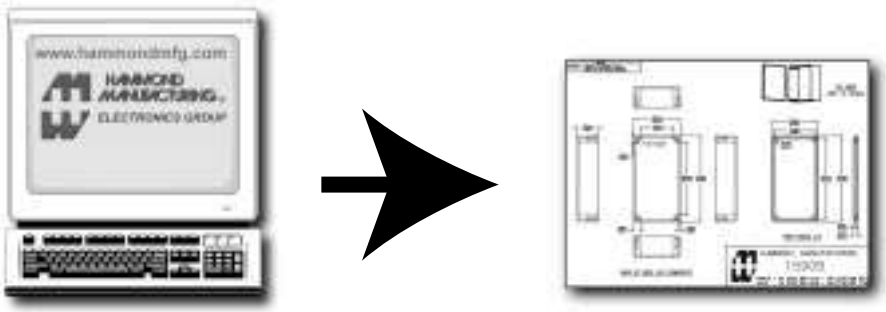
Lid (Inside & Edge View)

Top View

Part Number		Units	Dimensions					P.C. Card Clearance	
Black	Grey		A	B	C (No Lid)	F	G	J	K
1591MFLBK	1591MFLGY	inch	3.3	2.2	0.8	2.8	1.7	1.3	2.5
		mm	85	56	21	71	42	34	63
1591LFLBK	1591LFLGY	inch	3.3	2.2	1.4	2.9	1.7	1.4	2.5
		mm	85	56	35	73	44	35	64
1591AFLBK	1591AFLGY	inch	3.9	2.0	0.8	3.4	1.4	1.1	3.1
		mm	100	50	21	86	36	29	79
1591SFLBK	1591SFLGY	inch	4.3	3.2	1.6	3.8	2.7	2.4	3.5
		mm	110	82	40	98	70	61	89
1591BFLBK	1591BFLGY	inch	4.4	2.4	1.1	3.9	1.9	1.6	3.5
		mm	112	62	27	98	48	41	91
1591CFLBK	1591CFLGY	inch	4.7	2.6	1.4	4.2	2.0	1.7	3.9
		mm	120	65	36	106	51	44	99
1591TFLBK	1591TFLGY	inch	4.7	3.2	2.2	4.2	2.6	2.3	3.9
		mm	120	80	55	106	66	59	99
1591UFLBK	1591UFLGY	inch	4.7	4.7	2.2	4.2	4.2	3.9	3.9
		mm	120	120	55	106	106	99	99
1591VFLBK	1591VFLGY	inch	4.7	4.7	3.5	4.2	4.2	3.9	3.9
		mm	120	120	90	106	106	99	99
1591GFLBK	1591GFLGY	inch	4.8	3.7	1.2	4.2	3.1	2.8	3.9
		mm	121	94	30	106	79	73	100
1591DFLBK	1591DFLGY	inch	5.9	3.2	1.8	5.4	2.6	2.3	5.0
		mm	150	80	46	136	66	59	129
1591HFLBK	1591HFLGY	inch	6.5	2.8	1.0	6.0	2.2	1.9	5.6
		mm	165	71	25	153	56	50	144
1591EFLBK	1591EFLGY	inch	7.5	4.3	2.2	6.9	3.8	3.5	6.6
		mm	191	110	57	176	96	89	170

NOTES: - Assembled height = dimension “C” + 0.16” (4.0 mm)
- Average wall thickness: 0.06” (1.5 mm)

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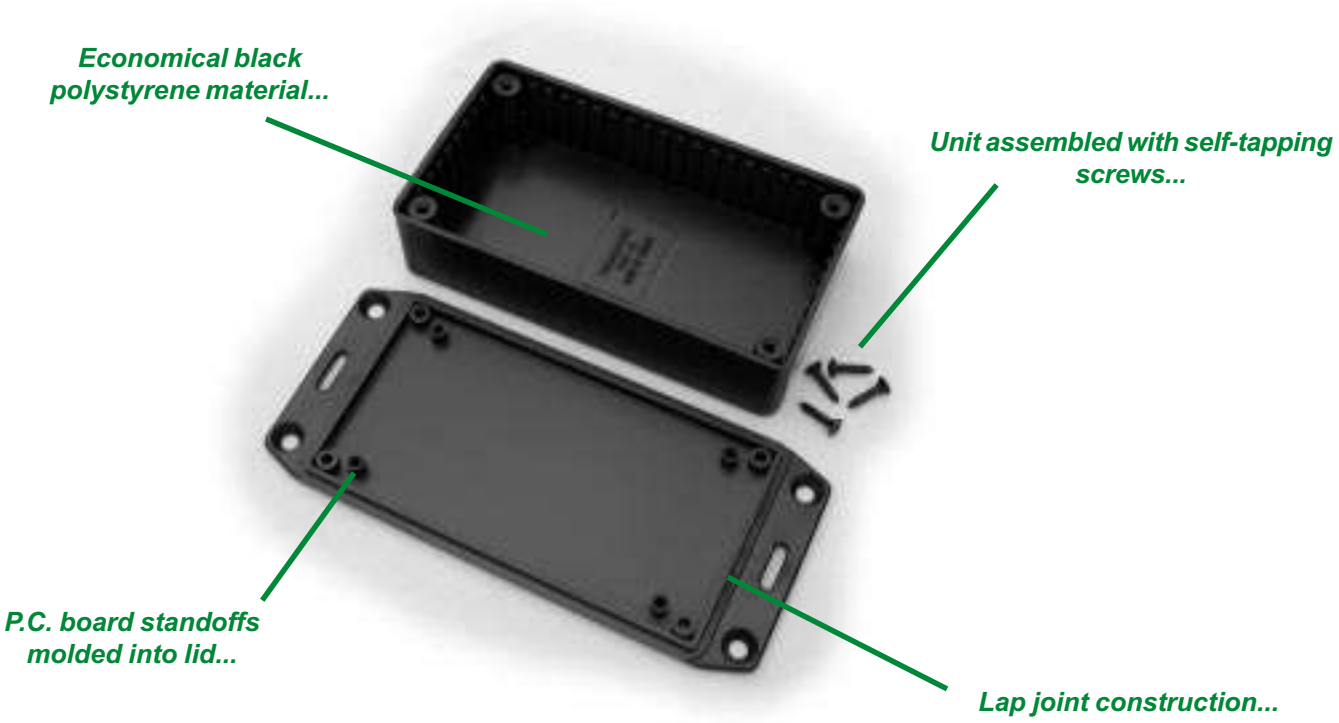


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Flanged Lid Version - Polystyrene (1591 Series)



OTHER KEY FEATURES

- Electronic instrument enclosures, designed for mounting printed circuit boards.
- Integral card guides accept 1.5 mm (0.062") P.C. cards. 1591E includes a removable center brace.
- Two piece lap joint construction provides protection against access of dust and splashing water.
- Designed to meet IP54
- Molded from economical black polystyrene.
- Lid is secured with self-tapping #4 x 0.5" Philips screws.

ACCESSORIES



P.C. Board Card Adaptors

Allows horizontal mounting of P.C. board(s). **See "Accessories Section" for full details!**

1591Z6 - Package of 6
1591Z50 - Package of 50
1591Z100 - Package of 100



P.C. Board Screws

Self-tapping type, used for bosses in the 1591 lid for P.C. board installation. #4 x 1/4" (6.4 mm)

1593ATS50 - Package of 50
1593ATS100 - Package of 100



Replacement Screws

Self-tapping type, black anodized, #4 x 0.5"

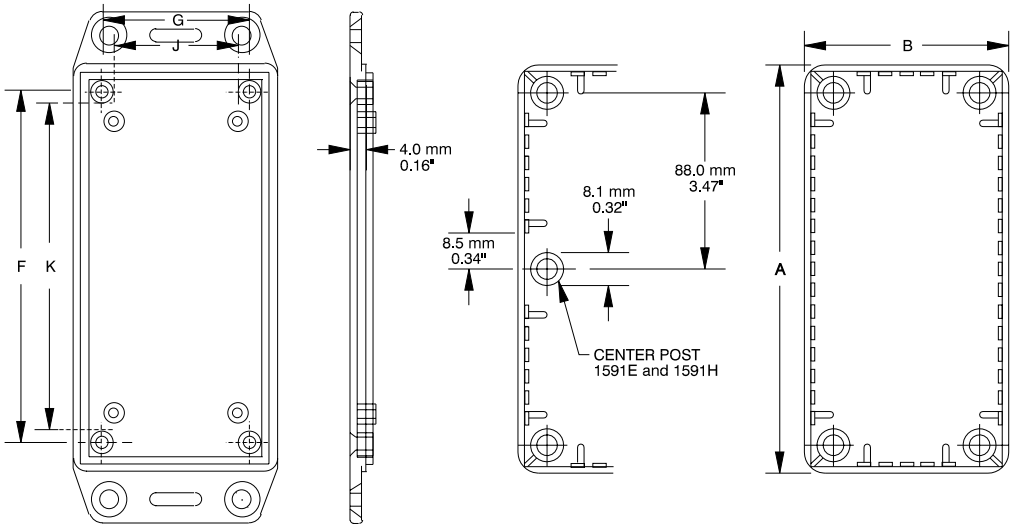
1591TS100BK - Package of 100

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Flanged Lid Version - Polystyrene (1591 Series)



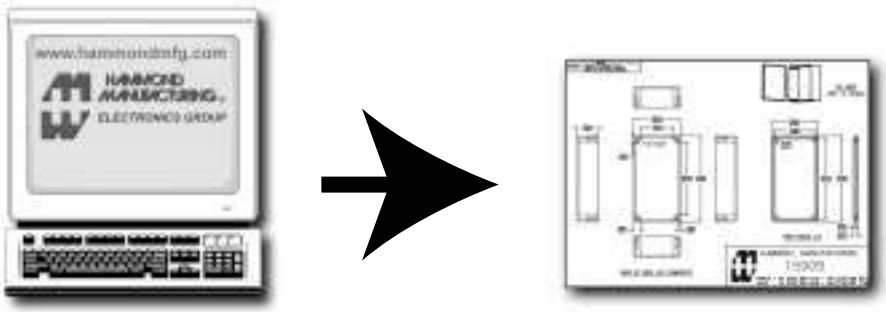
Lid (Inside & Edge View)

Top View

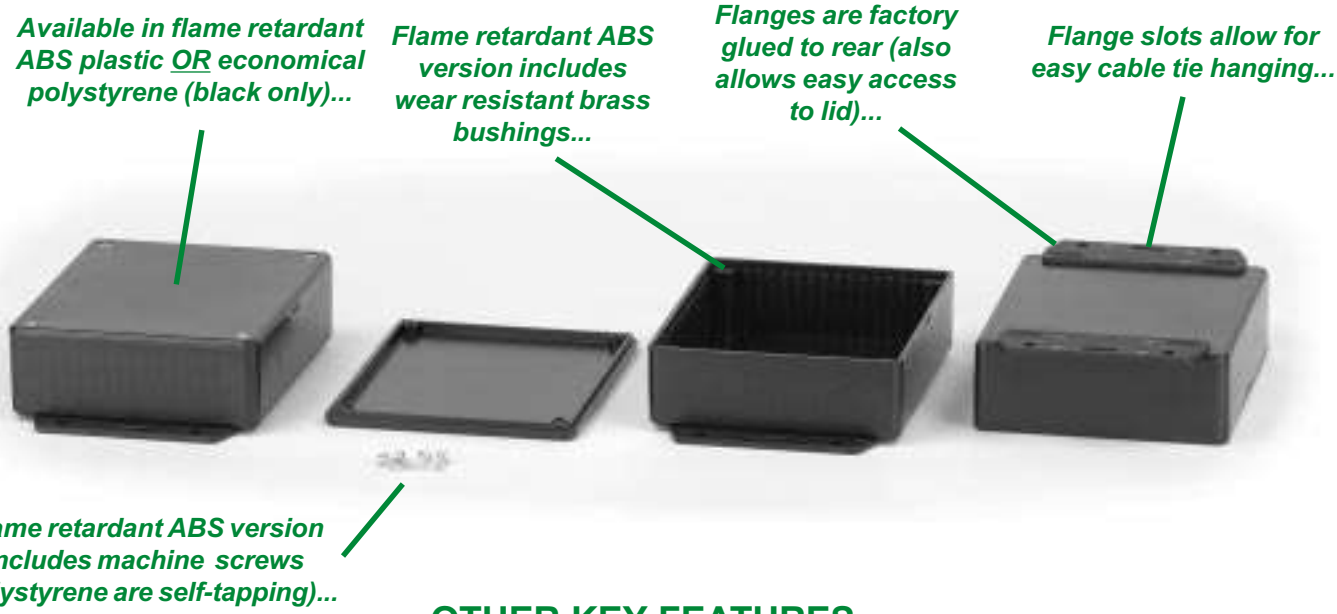
Part Number Black	Units	Dimensions					P.C. Card Clearance	
		A	B	C (No Lid)	F	G	J	K
1591MSFLBK	inch	3.3	2.2	0.8	2.8	1.7	1.3	2.5
	mm	85	56	21	71	42	34	63
1591LSFLBK	inch	3.3	2.2	1.4	2.9	1.7	1.4	2.5
	mm	85	56	35	73	44	35	64
1591ASFLBK	inch	3.9	2.0	0.8	3.4	1.4	1.1	3.1
	mm	100	50	21	86	36	29	79
1591SSFLBK	inch	4.3	3.2	1.6	3.8	2.7	2.4	3.5
	mm	110	82	40	98	70	61	89
1591BSFLBK	inch	4.4	2.4	1.1	3.9	1.9	1.6	3.5
	mm	112	62	27	98	48	41	91
1591CSFLBK	inch	4.7	2.6	1.4	4.2	2.0	1.7	3.9
	mm	120	65	36	106	51	44	99
1591TSFLBK	inch	4.7	3.2	2.2	4.2	2.6	2.3	3.9
	mm	120	80	55	106	66	59	99
1591USFLBK	inch	4.7	4.7	2.2	4.2	4.2	3.9	3.9
	mm	120	120	55	106	106	99	99
1591VSFLBK	inch	4.7	4.7	3.5	4.2	4.2	3.9	3.9
	mm	120	120	90	106	106	99	99
1591GSFLBK	inch	4.8	3.7	1.2	4.2	3.1	2.8	3.9
	mm	121	94	30	106	79	73	100
1591DSFLBK	inch	5.9	3.2	1.8	5.4	2.6	2.3	5.0
	mm	150	80	46	136	66	59	129
1591HSFLBK	inch	6.5	2.8	1.0	6.0	2.2	1.9	5.6
	mm	165	71	25	153	56	50	144
1591ESFLBK	inch	7.5	4.3	2.2	6.9	3.8	3.5	6.6
	mm	191	110	57	176	96	89	170

NOTES: - Assembled height = dimension "C" + 0.16" (4.0 mm)
- Average wall thickness: 0.08" (2.0 mm)

For detailed drawings, CAD files and color photos visit our website at:
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General Purpose - Flanged (1591 Series)



OTHER KEY FEATURES

- Electronic instrument enclosures, designed for mounting printed circuit boards.
- Integral card guides accept 1.5 mm (0.062") P.C. cards. 1591E includes a removable center brace.
- Lap joint construction provides protection against access of dust and splashing water.
- Designed to meet IP54
- Available in either flame retardant black ABS plastic (material carries a UL flammability rating of 94V-0) or economical black polystyrene.
- Flame retardant ABS version's lid is secured with M3 x 10 mm Philips machine screws, threaded into integral brass bushings.
- Polystyrene version's lid is secured with self-tapping #4 x 0.5" Philips screws.

ACCESSORIES



P.C. Board Card Adaptors
Allows horizontal mounting of P.C. board(s). **See "Accessories Section" for full details!**
1591Z6 - Package of 6
1591Z50 - Package of 50
1591Z100 - Package of 100



Replacement Screws
Machine screws, nickel plated, M3 - 0.5 x 10mm (used in the ABS version).
1591MS100 - Package of 100



Replacement Screws
Self-tapping type, black anodized, #4 x 0.5" (used in the polystyrene version).
1591TS100BK - Package of 100



Clear Lids
Stocked in prototype quantities - made of clear flame retardant polycarbonate. Lid ONLY.
1591LC - use with 1591L & M
1591AC - use with 1591A
1591BC - use with 1591B
1591CC - use with 1591C
1591DC - use with 1591D
1591EC - use with 1591E
1591GC - use with 1591G
1591HC - use with 1591H
1591SC - use with 1591S
1591TC - use with 1591T
1591UC - use with 1591U
1591VC - use with 1591V

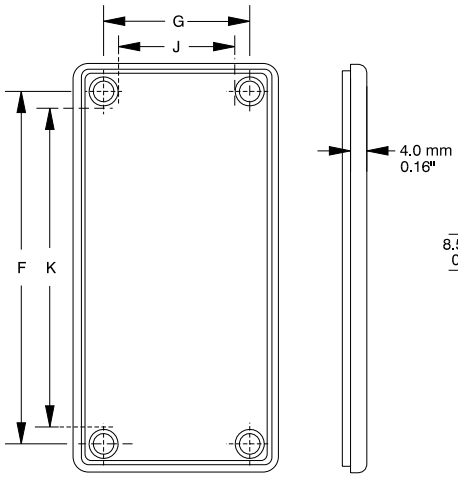
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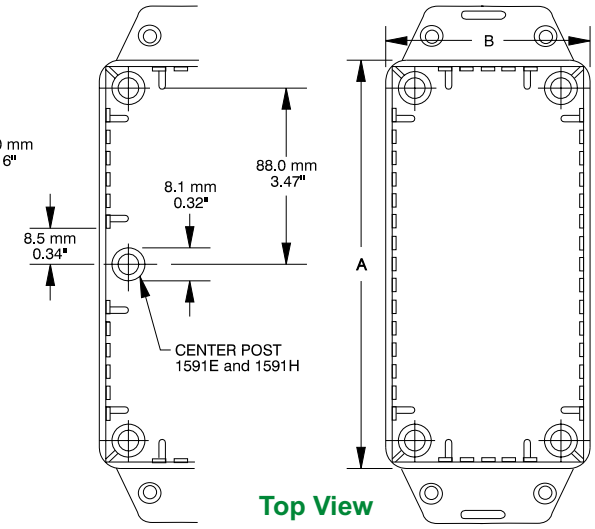
Hammond Manufacturing Co. Inc.
256 Sonwil Dr.
Cheektowaga, NY 14225 USA
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General Purpose - Flanged (1591 Series)





Lid (Inside & Edge View)



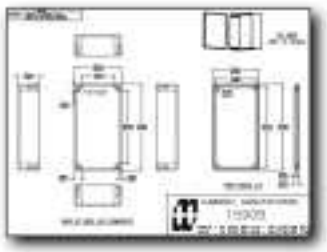
Top View

Part Number		Units	Dimensions					P.C. Card Clearance	
Black ABS with flange	Black Styrene with flange		A	B	C (No Lid)	F	G	J	K
1591MFBK	1591MFSBK	inch	3.3	2.2	0.8	2.8	1.7	1.3	2.5
		mm	85	56	21	71	42	34	63
1591LFBK	1591LFSBK	inch	3.3	2.2	1.4	2.9	1.7	1.4	2.5
		mm	85	56	35	73	44	35	64
1591AFBK	1591AFSBK	inch	3.9	2.0	0.8	3.4	1.4	1.1	3.1
		mm	100	50	21	86	36	29	79
1591SFBK	1591SFSBK	inch	4.3	3.2	1.6	3.8	2.7	2.4	3.5
		mm	110	82	40	98	70	61	89
1591BFBK	1591BFSBK	inch	4.4	2.4	1.1	3.9	1.9	1.6	3.5
		mm	112	62	27	98	48	41	91
1591CFBK	1591CFSBK	inch	4.7	2.6	1.4	4.2	2.0	1.7	3.9
		mm	120	65	36	106	51	44	99
1591TFBK	1591TFSBK	inch	4.7	3.2	2.2	4.2	2.6	2.3	3.9
		mm	120	80	55	106	66	59	99
1591UFBK	1591UFSBK	inch	4.7	4.7	2.2	4.2	4.2	3.9	3.9
		mm	120	120	55	106	106	99	99
1591VFBK	1591VFSBK	inch	4.7	4.7	3.5	4.2	4.2	3.9	3.9
		mm	120	120	90	106	106	99	99
1591GFBK	1591GFSBK	inch	4.8	3.7	1.2	4.2	3.1	2.8	3.9
		mm	121	94	30	106	79	73	100
1591DFBK	1591DFSBK	inch	5.9	3.2	1.8	5.4	2.6	2.3	5.0
		mm	150	80	46	136	66	59	129
1591HFBK	1591HFSBK	inch	6.5	2.8	1.0	6.0	2.2	1.9	5.6
		mm	165	71	25	153	56	50	144
1591EFBK	1591EFSBK	inch	7.5	4.3	2.2	6.9	3.8	3.5	6.6
		mm	191	110	57	176	96	89	170

NOTES: - Assembled height = dimension “C” + 0.16” (4.0 mm)
- Average wall thickness: Flame retardant ABS=0.06” (1.5 mm), Polystyrene = 0.08” (2.0 mm)

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