

#### INTRODUCTION:

Adam Tech IEC & Mini IEC Series AC Inlets and Outlets are primary power receptacles designed, manufactured, tested and approved to UL, CSA, VDE and other applicable international specifications including IEC-60320 and CEE-22. Adam Tech offers a wide variety of body styles, shapes and orientations to accommodate most class I & II applications with two or three blade contacts in both IEC and Mini-IEC configurations. Mounting choices include screw holes and snap-in versions and four termination styles. Options of ganged ports or receptacle with integral fuse holder are also available.

#### FEATURES:

IEC & Mini-IEC types  
IEC-60320, CEE-22 Compliant  
UL, CSA and VDE approved  
Multitude of Body Styles  
Choice of terminations  
Option of Integral Fuse Holder

#### MATING CONNECTORS:

Adam Tech PC series power cords and all standard international IEC 60320 power supply cords.

#### SPECIFICATIONS:

##### Material:

Insulator: Polycarbonate or Nylon 66, glass filled, rated UL94V-0  
Insulator Color: Black  
Contacts: Phosphor Bronze or Brass

##### Plating:

Nickel over copper underplate. (Solder terminals: Tin over copper underplate)

##### Electrical:

Operating Voltage: 250V AC  
Current Rating: IEC - UL & CSA: 15 Amps Max,  
VDE: 10 Amps Max.  
Mini IEC - UL, CSA & VDE 2.5 Amps Max.

Insulation Resistance: 100 MΩ Min. @ 500V DC  
Dielectric Withstanding Voltage: 2000V AC for 1 Minute

##### Temperature Rating:

Operation Temperature: -25°C ~ +70°C

#### PACKAGING:

Anti-ESD plastic trays

#### SAFETY AGENCY APPROVALS:

UL Recognized File Nos. E224049, E224050, E224051, E224052  
CSA Certified File No. 226373



DB12



#### ORDERING INFORMATION

IEC	A	1	150
<b>SERIES INDICATOR</b> IEC = International inlet/outlet	<b>TERMINALS</b>		
	1 = .187" Quick-connect terminals		
	2 = .250" Quick-connect terminals		
	3 = Solder terminals .157" [4.0mm]		
	4 = Right Angle PCB mount		
	5 = Solder Terminals .098" [2.5mm]		
	<b>PANEL THICKNESS</b> (for body styles C, D & J only) <b>Blank</b> = Universal Snap		
	080 = 0.8mm Panel		
	120 = 1.2mm Panel		
	150 = 1.5mm Panel		
	200 = 2.0mm Panel		
	300 = 3.0mm Panel		

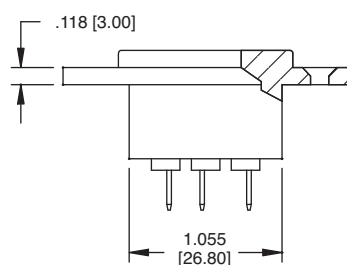
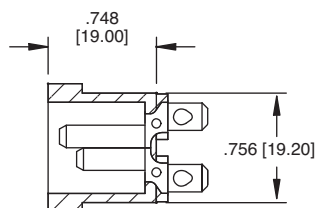
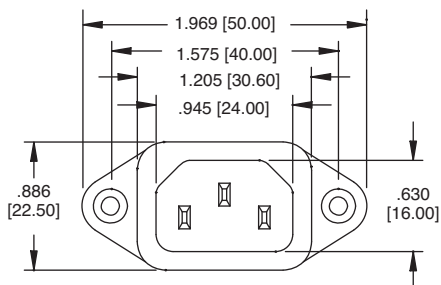
#### BODY STYLE

A = Male Inlet, Screw-on panel mount  
B = Female Outlet, Screw-on panel mount  
C = Male Inlet, Snap-in panel mount  
D = Female Outlet, Snap-in panel mount  
E = Male Inlet, Right Angle PCB board mount with mounting flange (Specify EW, EX, EY or EZ)  
F = Male Inlet, Screw on panel mount with 5 x 20mm fuse holder  
G = Male Inlet, Snap-in panel mount with 5 x 20mm fuse holder  
HS = Inlet/Outlet, snap-in panel mount  
HR = Inlet/outlet, snap-in panel mount, right angle PCB mount  
J = Male inlet, right angle PCB & tail with snap-in panel mounting  
NA = Mini-IEC right angle, snap-in  
NB = Mini-IEC right angle, slide-in  
NB-A = Mini-IEC right angle, slide-in with pegs  
NC = Mini-IEC right angle, with flush flange  
NC-A = Mini-IEC right angle, with extended face  
ND = Mini-IEC right angle, with enclosed body  
NF = Mini-IEC right angle, polarized with flange  
NH = Mini-IEC right angle, with ground pin  
NH-A = Mini-IEC right angle, flange mount with ground pin  
GS = Fused inlet with switch snap in panel mount  
FS = Fused inlet with switch screw on panel mount

#### OPTIONS:

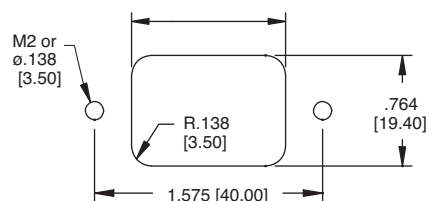
K = Keyed for 120° C (Body Styles A, C, E & J)  
M = Female outlet, 20 AMP, Flanged  
N = Male inlet, 20 AMP, Snap-In

#### IEC-A SCREW ON PANEL MOUNT



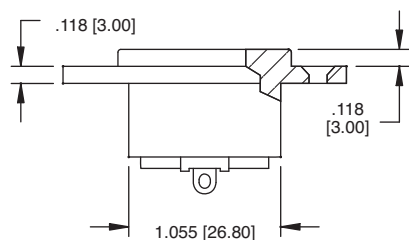
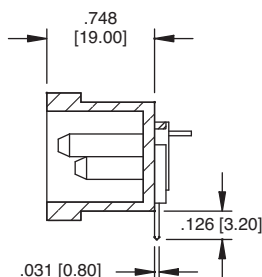
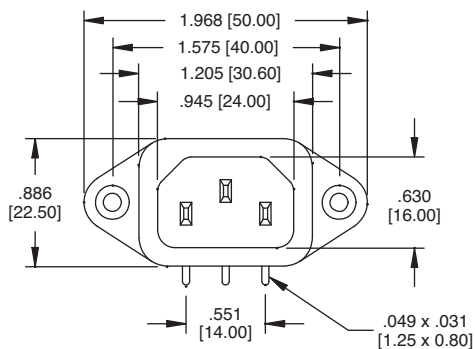
IEC-A-1

1.075 [27.30] Front Mounting  
1.212 [30.80] Rear Mounting

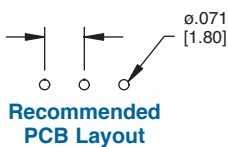
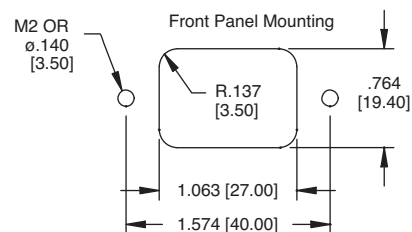
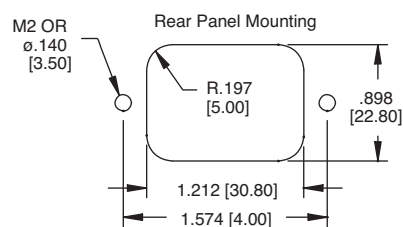


TERMINAL OPTIONS			
1	2	3	5
.187 Q.C.	.250 Q.C.	.157 Solder	.098 Solder

#### IEC-A SCREW ON PANEL RIGHT ANGLE PCB MOUNT

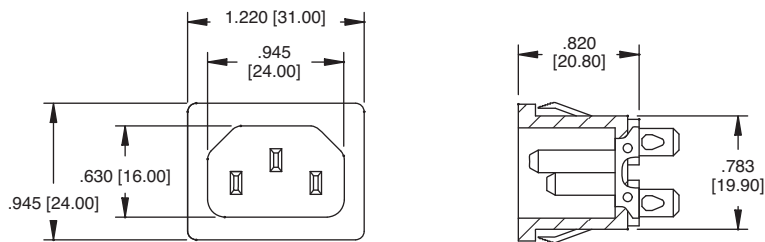


IEC-A-4

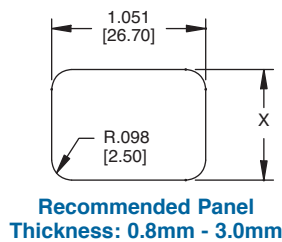
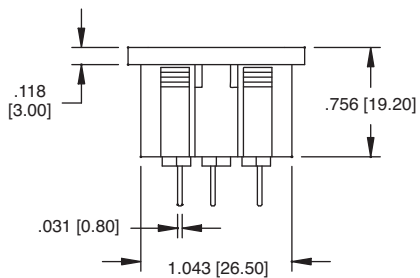


Recommended  
PCB Layout

#### IEC-C UNIVERSAL PANEL SNAP



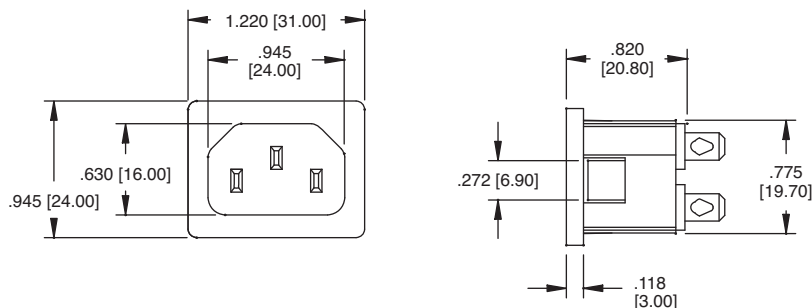
IEC-C-1



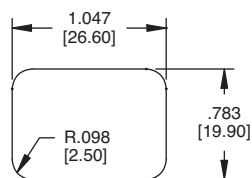
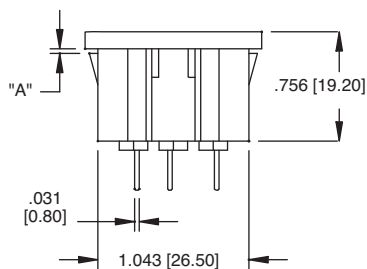
PANEL THICKNESS	DIM X
.031-.039 [0.8-1.0]	.780 [19.8]
.039-.059 [1.0-1.5]	.784 [19.9]
.079-.119 [2.0-3.0]	.788 [20.0]

TERMINAL OPTIONS			
1	2	3	5
.187 Q.C.	.250 Q.C.	.157 Solder	.098 Solder

#### IEC-C DEDICATED PANEL SNAP



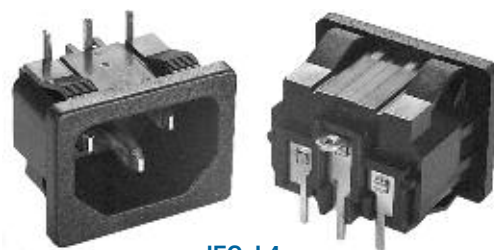
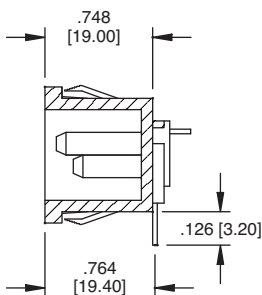
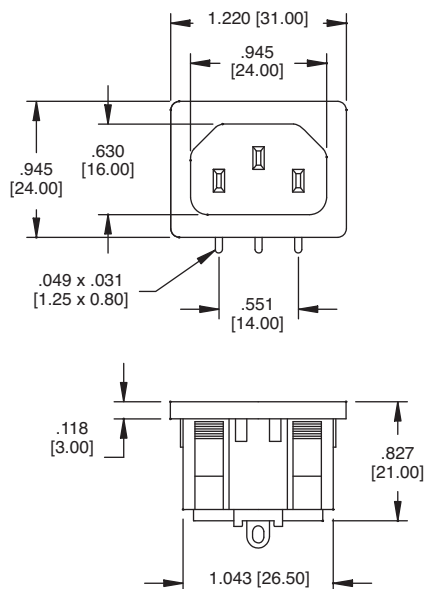
IEC-C-1-150



PANEL THICKNESS	PART NUMBER	DIM "A"
0.8mm	IEC-C-X-080	.031 [0.80]
1.5mm	IEC-C-X-150	.059 [1.50]
3.0mm	IEC-C-X-300	.118 [3.00]
4.0mm	IEC-C-X-400	.157 [4.00]

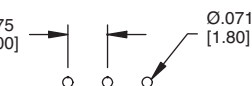
Replace X with terminal option below

TERMINAL OPTIONS			
1	2	3	5
.187 Q.C.	.250 Q.C.	.157 Solder	.098 Solder

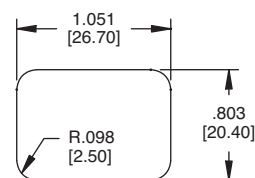


IEC-J-4

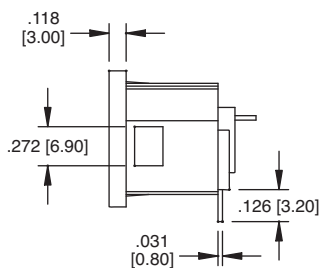
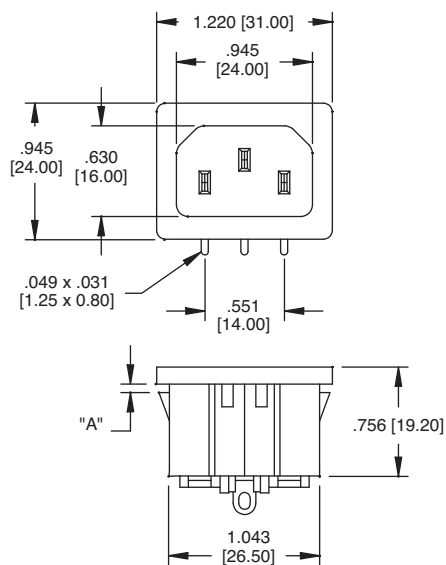
**IEC-J  
UNIVERSAL PANEL SNAP  
RIGHT ANGLE PCB MOUNT**



**Recommended PCB  
Layout**

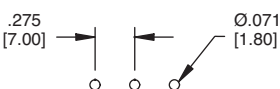


**Recommended Panel  
Thickness: 0.80mm - 3.0mm**

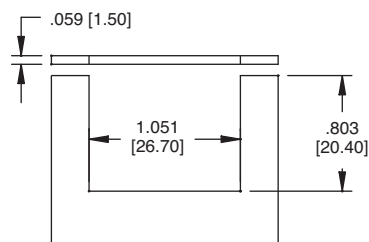


IEC-J-4-150

**IEC-J  
DEDICATED PANEL SNAP  
RIGHT ANGLE PCB MOUNT**



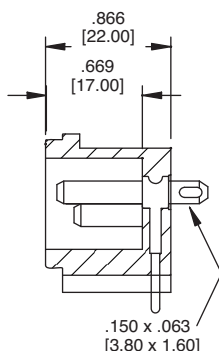
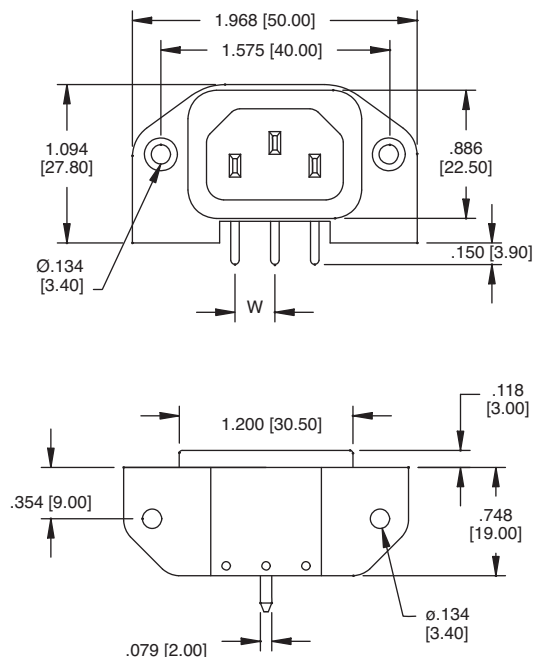
**Recommended PCB  
Layout**



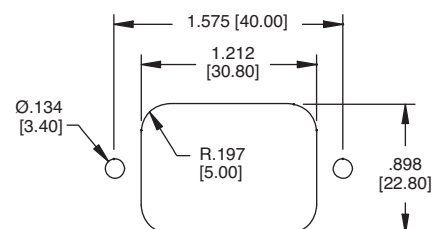
**Recommended Panel Cut-Out**

PANEL THICKNESS	PART NUMBER	DIM "A"
0.8mm	IEC-J-4-120	.047 [1.20]
1.5mm	IEC-J-4-150	.059 [1.50]
3.0mm	IEC-J-4-200	.079 [2.00]
4.0mm	IEC-J-4-300	.118 [3.00]

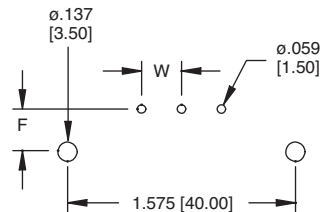
#### IEC-E FLANGED RIGHT ANGLE PCB MOUNT



IEC-EW-4



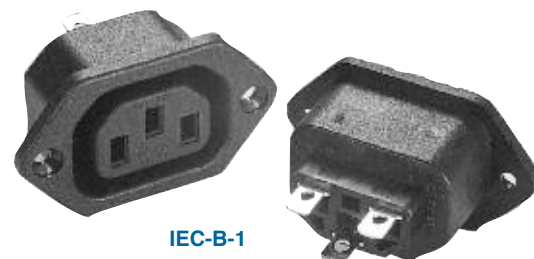
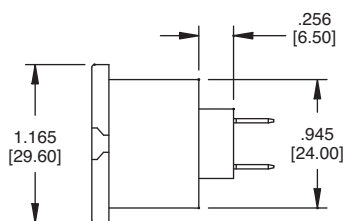
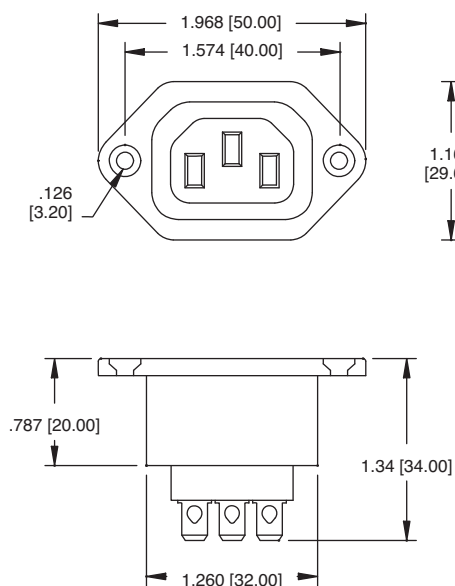
Recommended Panel Cut-Out



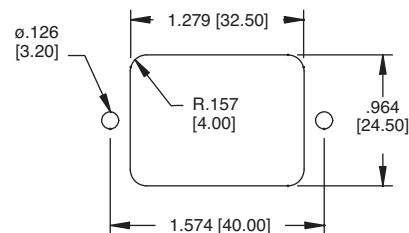
Recommended PCB Layout

DIMENSIONAL		
PART NO.	F	W
IEC-EW	.287 [7.30]	.276 [7.00]
IEC-EX	.287 [7.30]	.358 [9.10]
IEC-EY	.382 [9.70]	.276 [7.00]
IEC-EZ	.382 [9.70]	.358 [9.10]

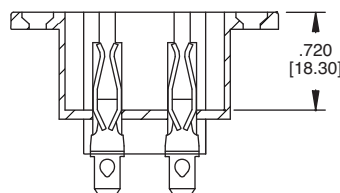
#### IEC-B FLANGED SCREW ON PANEL MOUNT



IEC-B-1



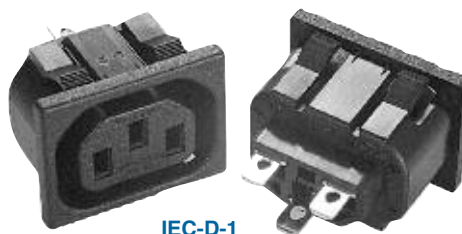
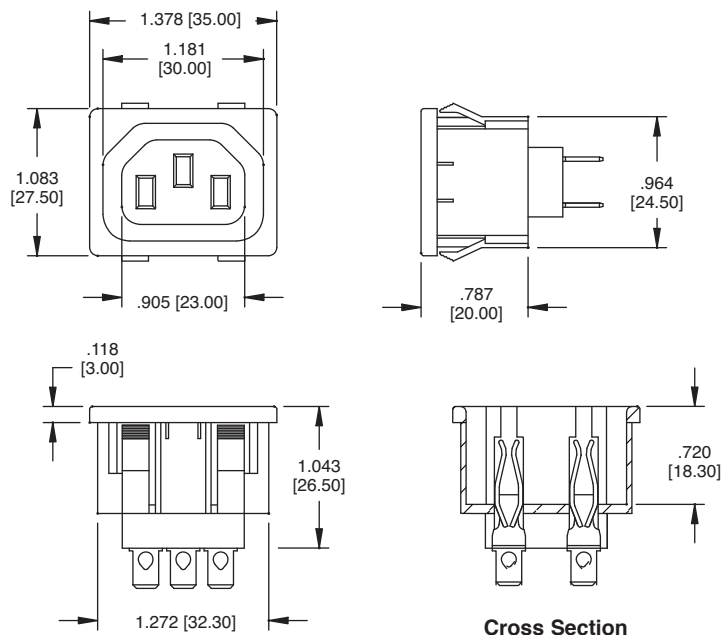
Recommended Panel Cut-Out



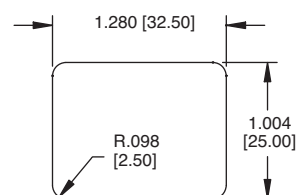
Cross Section

TERMINAL OPTIONS		
1	2	3
.187 Q.C.	.250 Q.C.	.157 Solder

#### IEC-D UNIVERSAL PANEL SNAP



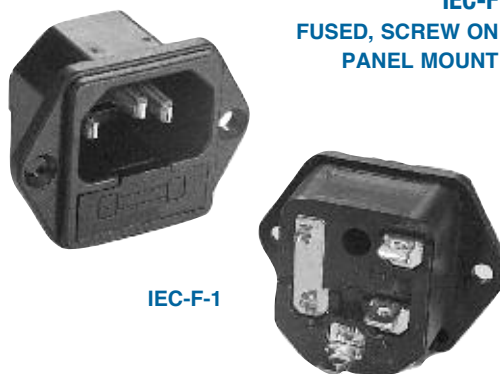
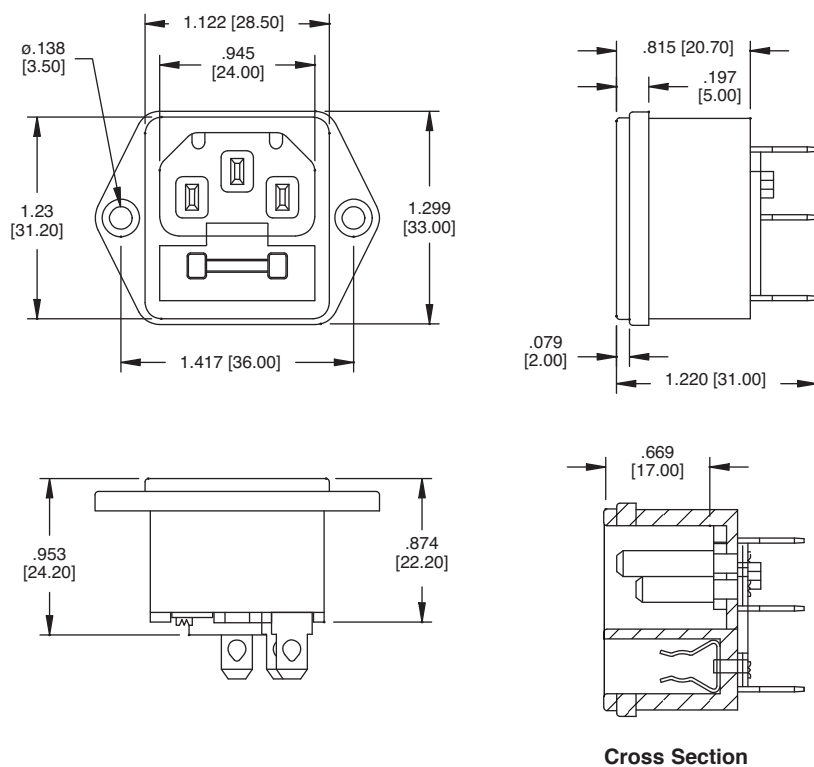
IEC-D-1



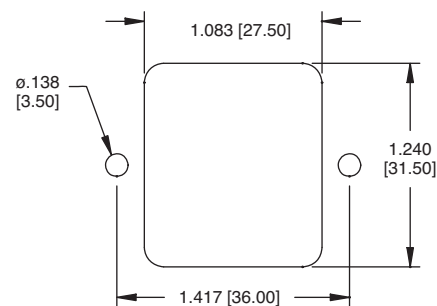
**Recommended Panel Thickness:  
0.8mm - 3.0mm**

TERMINAL OPTIONS		
1	2	3
.187 Q.C.	.250 Q.C.	.157 Solder

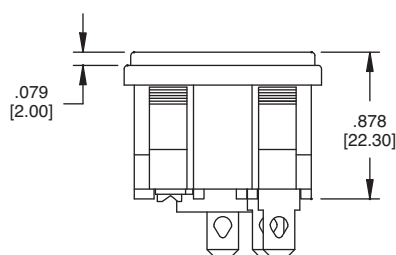
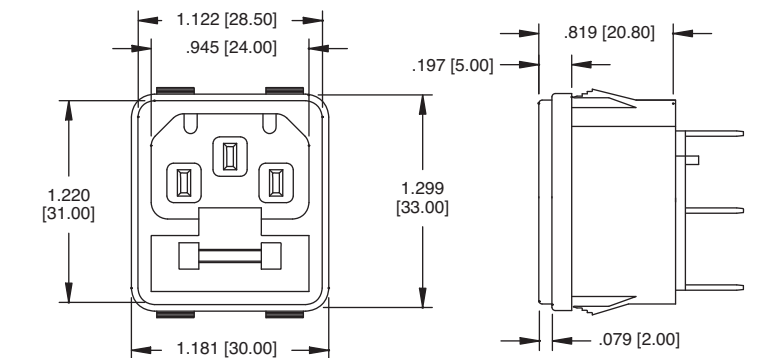
#### IEC-F FUSED, SCREW ON PANEL MOUNT



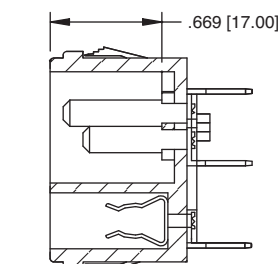
IEC-F-1



**Recommended Panel Cut-Out**



PANEL THICKNESS	DIM X
.031-.071 [0.8-1.8]	1.240 [31.50]
.075-.126 [1.9-3.2]	1.248 [31.70]

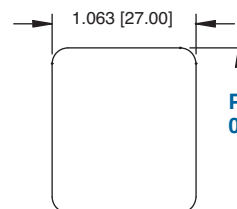


Cross Section



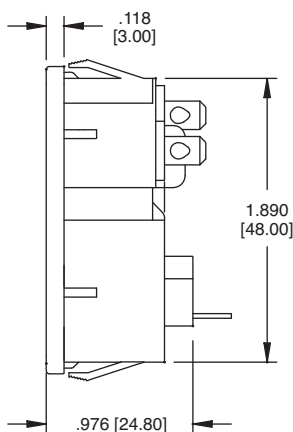
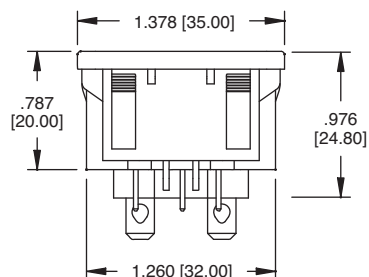
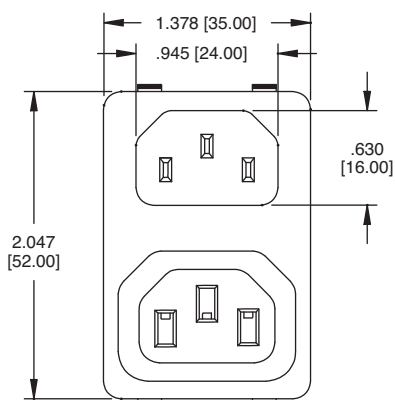
IEC-G-1

**IEC-G**  
FUSED WITH UNIVERSAL  
PANEL SNAP



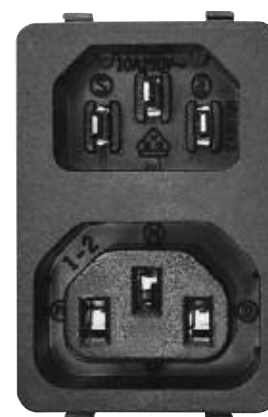
Panel thickness:  
0.8mm - 3.2mm

TERMINAL OPTIONS		
1	2	3
.187 Q.C.	.250 Q.C.	.157 Solder



Recommended Panel Cut-Out

**IEC-HS**  
FUSED INLET & OUTLET  
WITH UNIVERSAL  
PANEL SNAP

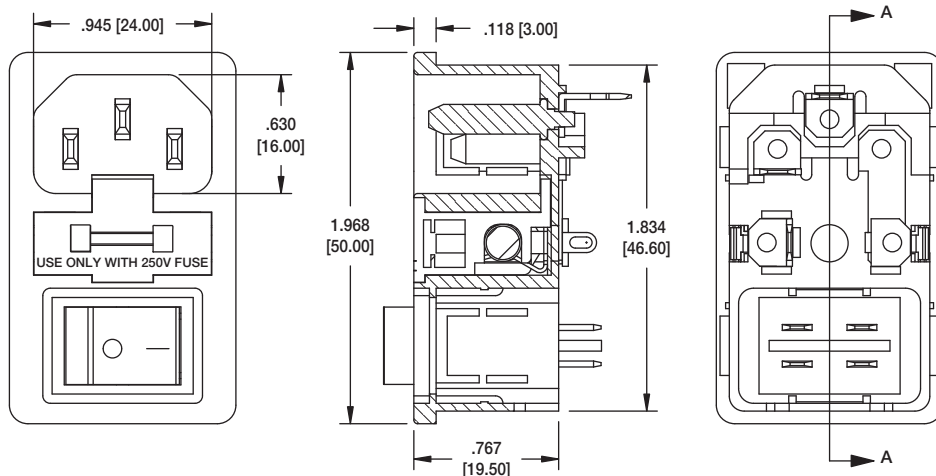


IEC-HS-1



#### IEC-GS-1

FUSED INLET WITH SWITCH,  
SNAP IN PANEL MOUNT



PART NUMBER	DIM "A"
IEC-GS-1-100	.039 [1.00]
IEC-GS-1-150	.059 [1.50]
IEC-GS-1-200	.079 [2.00]

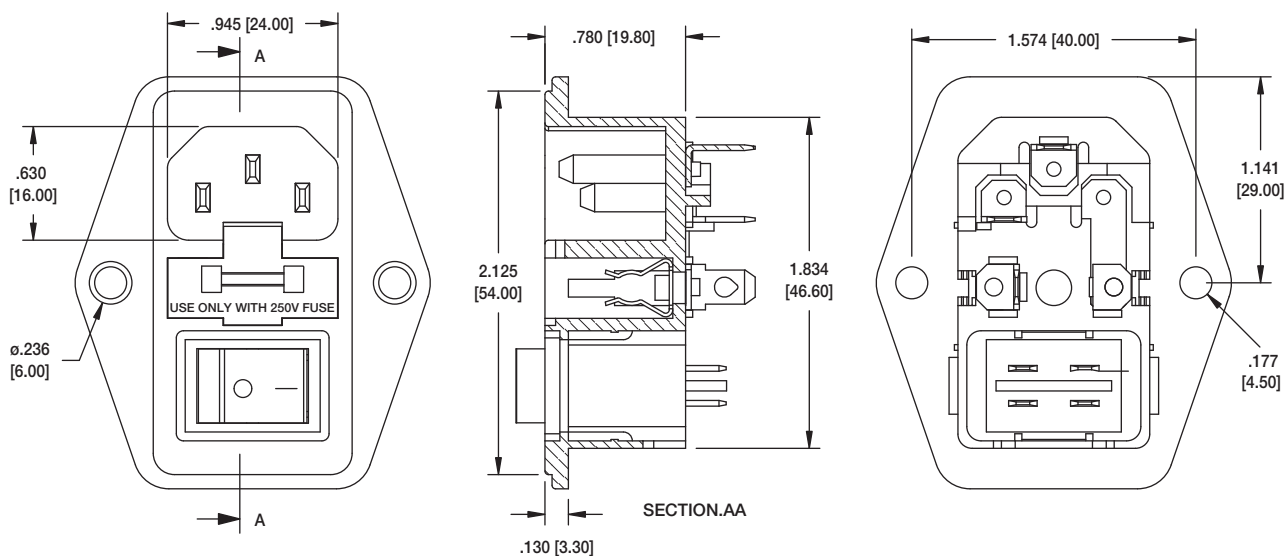


IEC-GS-1-100

Recommended Panel Cut-Out

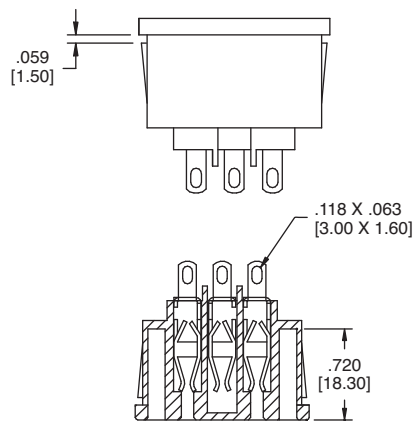
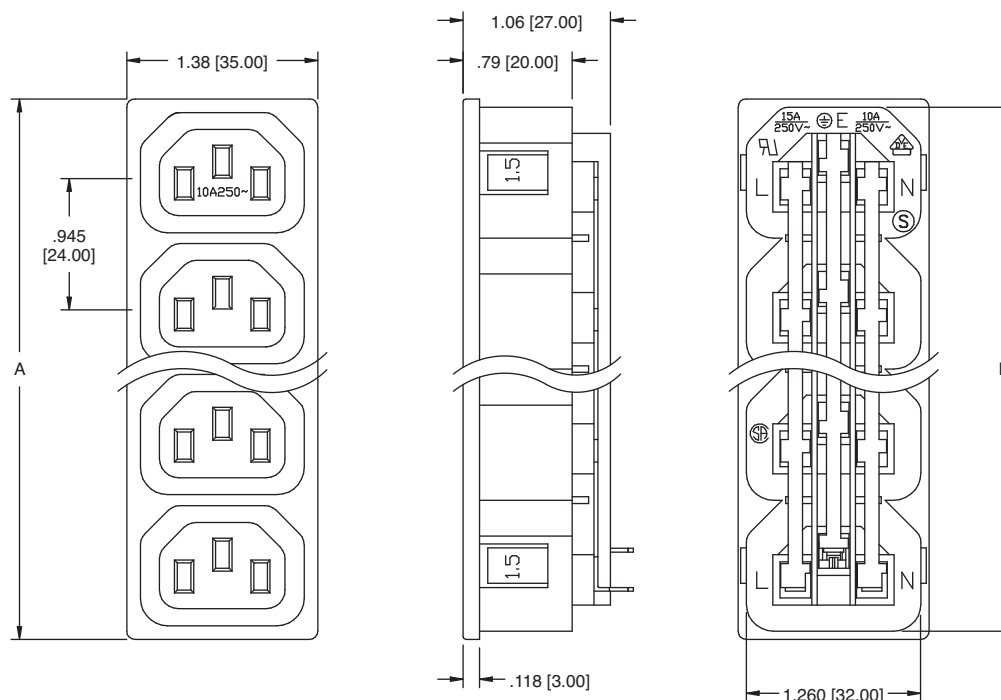
#### IEC-FS-1

FUSED INLET WITH  
SWITCH, SCREW ON  
PANEL MOUNT

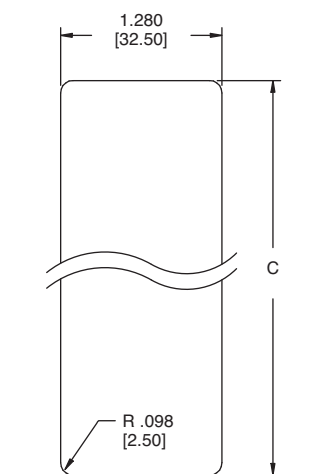




#### IEC-D-S STACKED OUTLETS WITH DEDICATED PANEL SNAPS



Cross Section



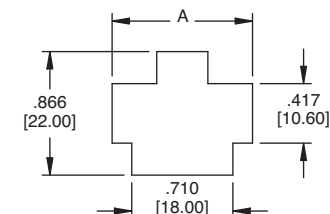
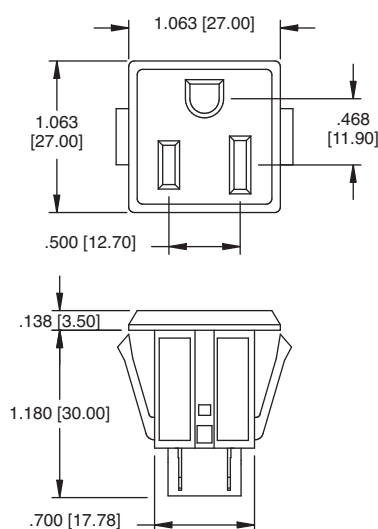
Recommended Panel Cut-Out



IEC-D-S4-150

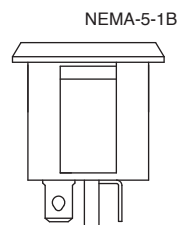
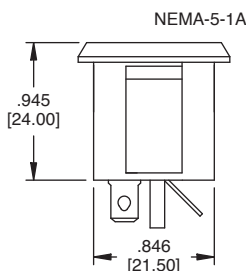
DIMENSIONS				
PART NUMBER	PORTS	A	B	C
IEC-D-S2-150	2	2.007 [51.00]	1.890 [48.00]	1.901 [48.30]
IEC-D-S3-150	3	2.953 [75.00]	2.835 [72.00]	2.846 [72.30]
IEC-D-S4-150	4	3.897 [99.00]	3.780 [96.00]	3.791 [96.30]
IEC-D-S5-150	5	4.842 [123.00]	4.724 [120.00]	4.736 [120.30]
IEC-D-S6-150	6	5.787 [147.00]	5.670 [144.00]	5.681 [144.30]
IEC-D-S7-150	7	6.732 [171.00]	6.614 [168.00]	6.626 [168.30]

\*PART NUMBERS SHOWN ARE FOR 1.5mm PANEL THICKNESS. CONSULT FACTORY FOR OTHER PANEL THICKNESSES REQUIREMENTS



PANEL THICKNESS	DIM. A
.031 [0.80]	.945 [24.00]
.039 [1.00]	.968 [24.60]
.047 [1.20]	.992 [25.20]
.063 [1.60]	1.031 [26.20]

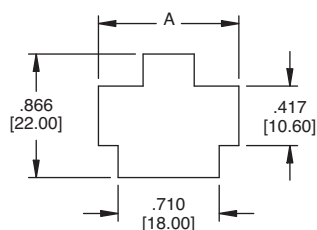
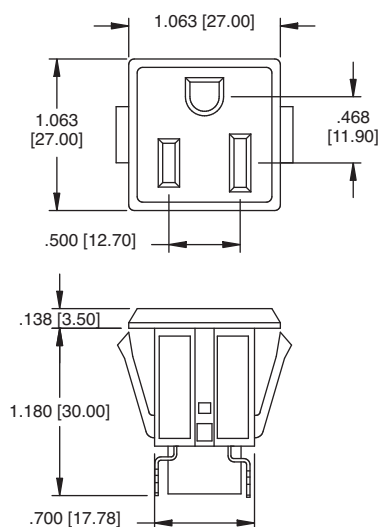
**Recommended Panel Cut-Out For  
1.50mm Panel Thickness**



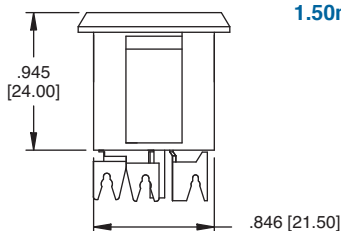
OPTIONAL STRAIGHT GROUND



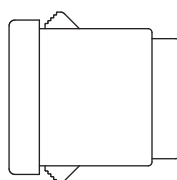
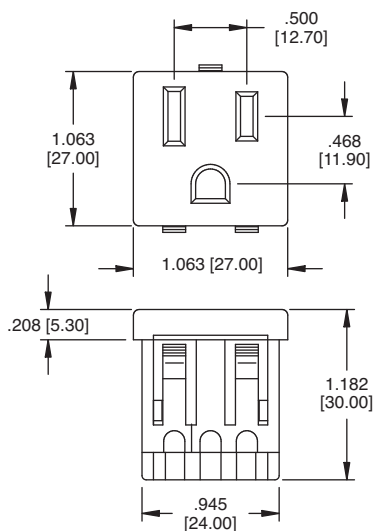
**NEMA-5-1**



**Recommended  
Panel Cut-Out For  
1.50mm Panel Thickness**



**NEMA-5-2**

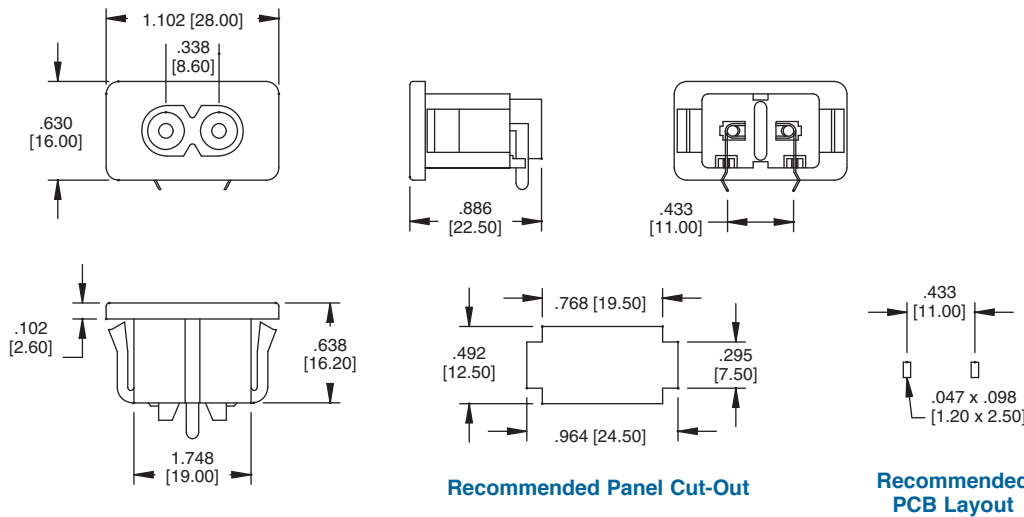


**Recommended Panel Cut-Out For  
Panel 0.8mm - 1.50mm**

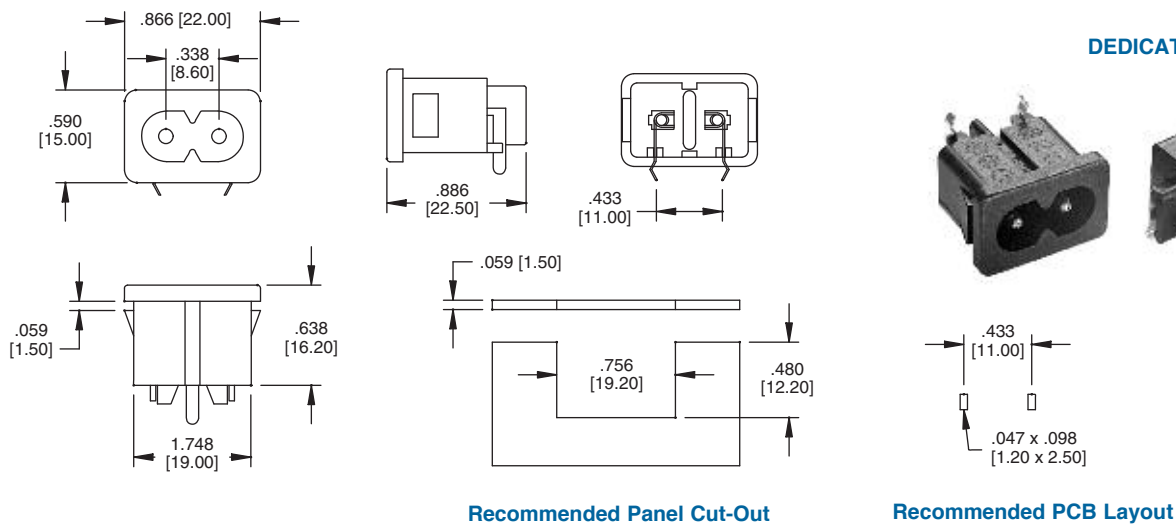


**NEMA-5-3**

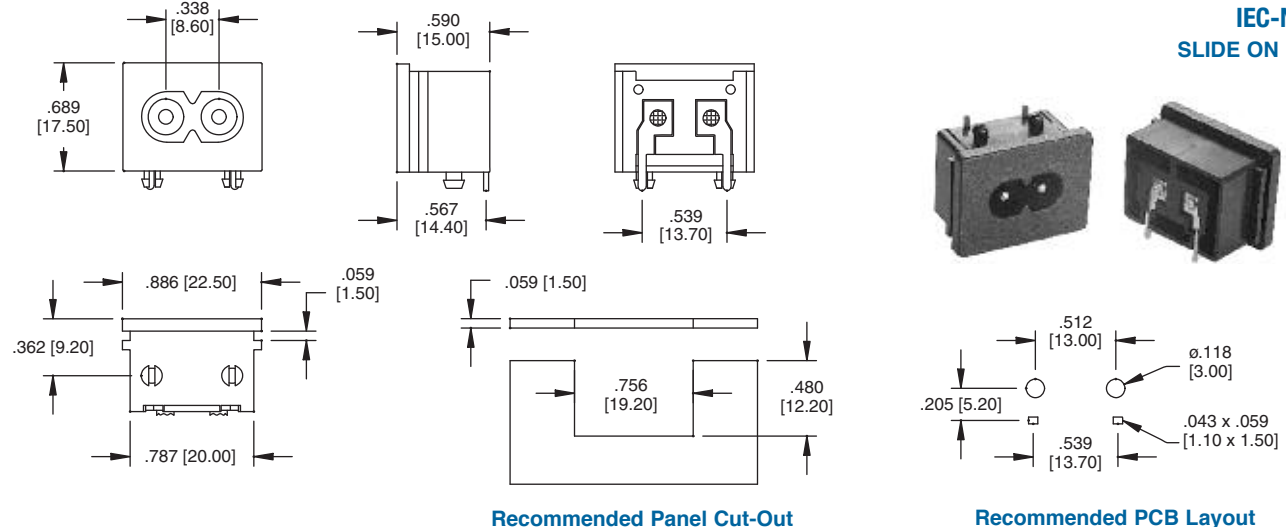
#### IEC-NA-4 UNIVERSAL PANEL SNAP

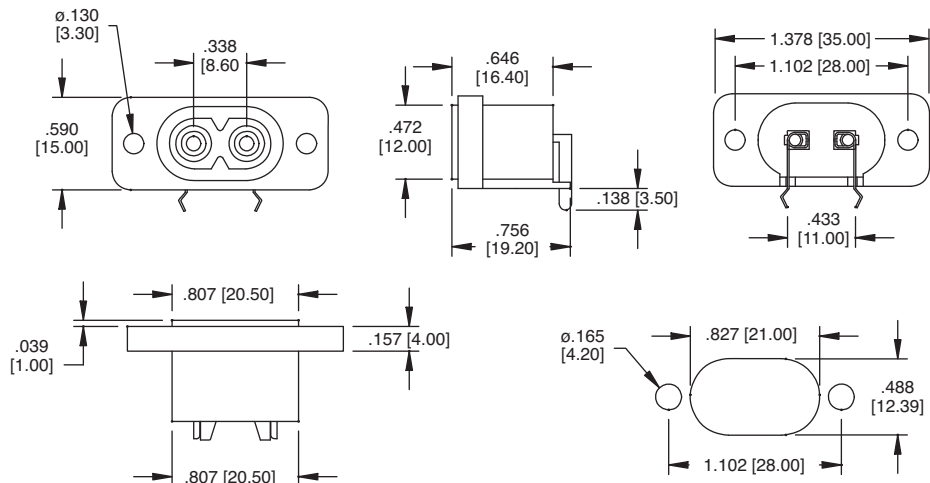


#### IEC-NB-4 DEDICATED PANEL SNAP



#### IEC-NB-A-4 SLIDE ON PANEL

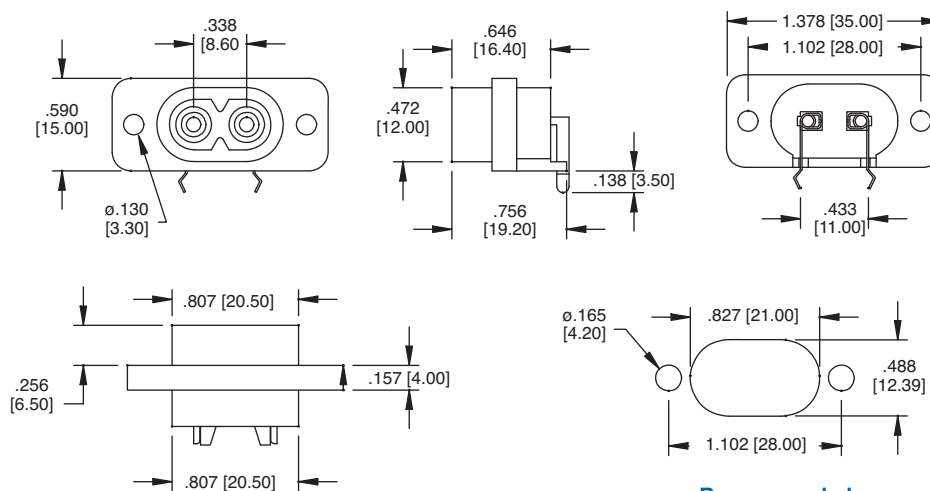
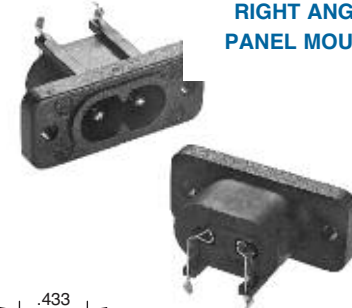




Recommended  
PCB Layout

Recommended  
Panel Cut-Out

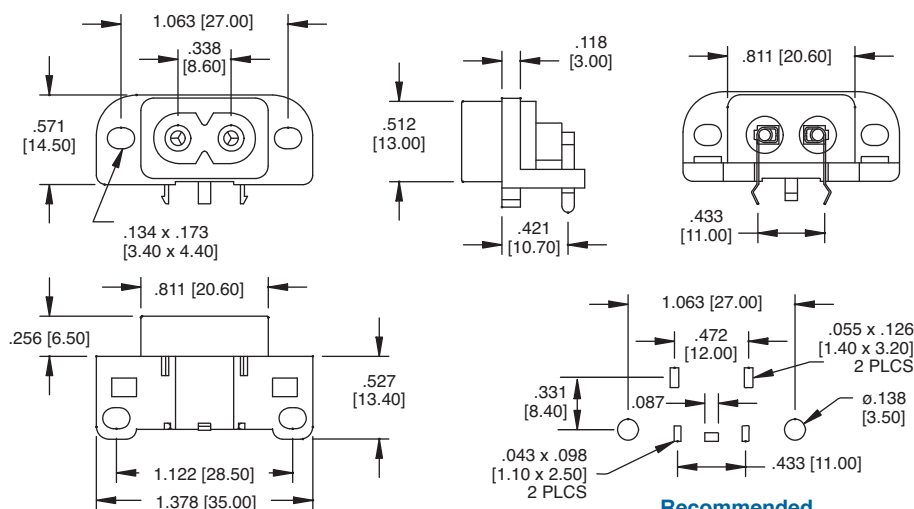
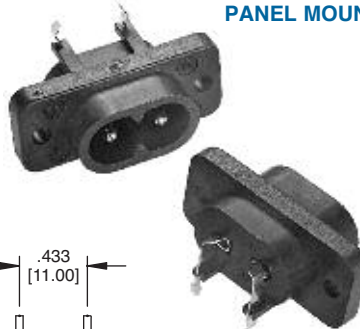
IEC-NC-4  
RIGHT ANGLE  
PANEL MOUNT



Recommended  
PCB Layout

Recommended  
Panel Cut-Out

IEC-NC-A-4  
RIGHT ANGLE  
PANEL MOUNT



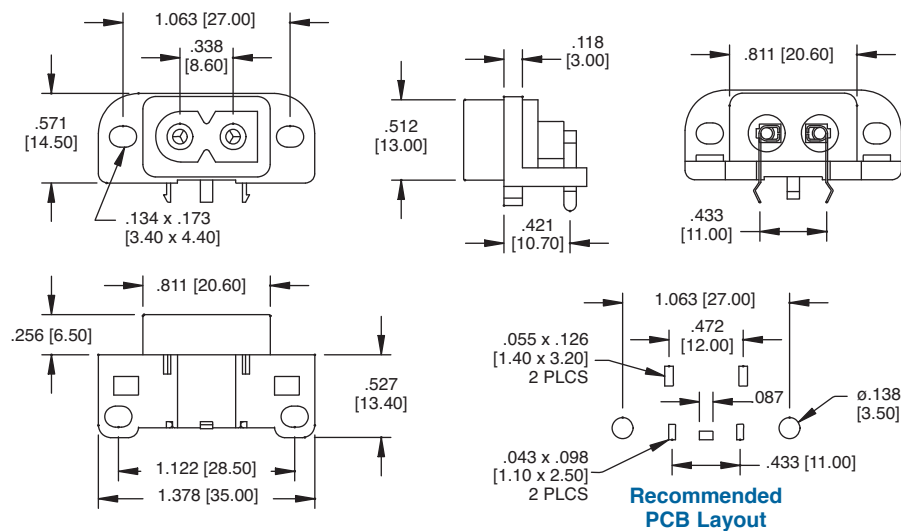
Recommended  
PCB Layout

Recommended  
Panel Cut-Out

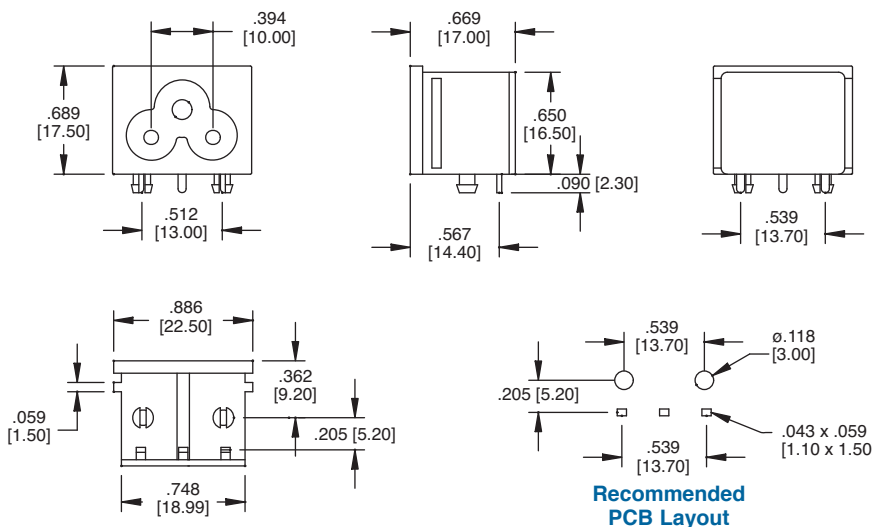
IEC-ND-4  
RIGHT ANGLE  
PANEL MOUNT



#### IEC-NF-4 RIGHT ANGLE PANEL MOUNT



#### IEC-NH-4 RIGHT ANGLE SLIDE ON PANEL



#### IEC-NH-A-4 RIGHT ANGLE SCREW ON PANEL MOUNT

