mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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FULL SUBPANEL A-T-O



PROLINE[™] subpanels are designed to provide maximum panel depth, panel size and ease of installation. Full subpanels slide into the frame on nylon glide blocks, which support the entire weight of the subpanel.

- All necessary mounting hardware is included
- Subpanels are 12 gauge (2.5-mm) steel (subpanels for double-bay enclosures 1400-mm tall or taller are 10 gauge steel), have flanges on all sides and are painted white • Conductive subpanels are unpainted galvanized steel • Subpanels can be mounted at nearly any depth in 25-mm
- increments
- Panels installed in the rearmost position in joined (ganged) enclosures provide a continuous mounting surface without requiring joining panels
- Mounting hardware attaches to the top or to the sides of the . frame
- Additional Mounting Hardware (catalog number PMKPF) is available for applications requiring more support in the center or bottom of the subpanel. This is required if the enclosure will be tipped in transit or if the panel is not located at the bottom of the enclosure on the glide blocks. In addition, 3-row grid straps are required for installation unless the panel is in the rearmost position.

BULLETIN: P20

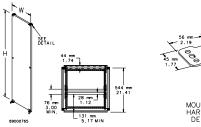
Catalog Number	Material	H (mm)	H (in.)	W (mm)	W (in.)
PPF76	Steel	585	23.03	530	20.87
PPF76G	Conductive	585	23.03	530	20.87
PPF78	Steel	585	23.03	730	28.74
PPF78G	Conductive	585	23.03	730	28.74
PPF712	Steel	585	23.03	1130	44.49
PPF146	Steel	1285	50.59	530	20.87
PPF146G	Conductive	1285	50.59	530	20.87
PPF148	Steel	1285	50.59	730	28.74
PPF148G	Conductive	1285	50.59	730	28.74
PPF1412	Steel	1285	50.59	1130	44.49
PPF166	Steel	1485	58.46	530	20.87
PPF166G	Conductive	1485	58.46	530	20.87
PPF168	Steel	1485	58.46	730	28.74
PPF168G	Conductive	1485	58.46	730	28.74
PPF1612	Steel	1485	58.46	1130	44.49
PPF1612G	Conductive	1485	58.46	1130	44.49
PPF186	Steel	1685	66.34	530	20.87
PPF186G	Conductive	1685	66.34	530	20.87
PPF188	Steel	1685	66.34	730	28.74
PPF188G	Conductive	1685	66.34	730	28.74
PPF1810	Steel	1685	66.34	930	36.61
PPF1810G	Conductive	1685	66.34	930	36.61
PPF1812	Steel	1685	66.34	1130	44.49
PPF1812G	Conductive	1685	66.34	1130	44.49
PPF1816	Steel	1685	66.34	1530	60.24
PPF1816G	Plated	1685	66.34	1530	60.24
PPF204	Steel	1885	74.21	330	13.00
PPF206	Steel	1885	74.21	530	20.87
PPF206G	Conductive	1885	74.21	530	20.87
PPF207	Steel	1885	74.21	630	24.80
PPF207G	Conductive	1885	74.21	630	24.80
PPF208	Steel	1885	74.21	730	28.74
PPF208G	Conductive	1885	74.21	730	28.74
PPF2010	Steel	1885	74.21	930	36.61
PPF2010G	Conductive	1885	74.21	930	36.61
PPF2012	Steel	1885	74.21	1130	44.49
PPF2012G	Conductive	1885	74.21	1130	44.49
PPF2016	Steel	1885	74.21	1530	60.24
PPF2016G	Plated	1885	74.21	1530	60.24
PPF226	Steel	2085	82.09	530	20.87
PPF226G	Conductive	2085	82.09	530	20.87
PPF227	Steel	2005	82.09	630	24.80
PPF227G	Conductive	2005	82.09	630	24.80
PPF228	Steel	2005	82.09	730	28.74
PPF228G	Conductive	2085	82.09	730	28.74
PPF2200 PPF2210	Steel	2085	82.09	930	36.61
PPF2210 PPF2210G	Conductive	2085	82.09	930	36.61
PPF22106 PPF2212	Steel	2085	82.09	930	30.01

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Additional Mounting Hardware



Additional Side Mounting Hardware (see Detail in drawing)





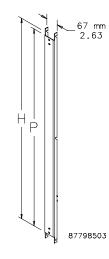
Hoffman





Provides a continuous panel surface in multiple bay enclosures. The joining subpanel is inserted between full subpanels of equal height. It can be installed from front or rear. Holes for grounding and mounting hardware are provided. Finish is white. Conductive joining subpanels are unpainted galvanized steel.

BULLETIN: P20



Catalog Number	Material	H (mm)	H (in.)	P (mm)	P (in.)	Fits between full subpanels
PJP7G	Conductive	585	23.03	548	21.57	PPF76, PPF78, PPF712
PJP16	Steel	1485	58.46	1448	57.00	PPF166, PPF167, PPF168, PPF1612
PJP16G	Conductive	1485	58.46	1448	57.00	PPF166, PPF167, PPF168, PPF1612
PJP18	Steel	1685	66.34	1648	64.87	PPF186, PPF187, PPF188, PPF1810, PPF1812, PPF1816
PJP18G	Conductive	1685	66.34	1648	64.87	PPF186, PPF187, PPF188, PPF1810, PPF1812, PPF1816
PJP20	Steel	1885	74.21	1848	72.75	PPF206, PPF207, PPF208, PPF2010, PPF2012, PPF2016
PJP20G	Conductive	1885	74.21	1848	72.75	PPF206, PPF207, PPF208, PPF2010, PPF2012, PPF2016
PJP22	Steel	2085	82.09	2048	80.62	PPF226, PPF227, PPF228, PPF2210, PPF2212, PPF2216
PJP22G	Conductive	2085	82.09	2048	80.62	PPF226, PPF227, PPF228, PPF2210, PPF2212, PPF2216

Consult Hoffman for delivery

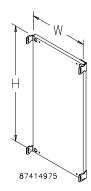


PARTIAL SUBPANEL



Partial Subpanels are 12 gauge steel, have flanges on four sides and are painted white. Panels can be positioned vertically in 25mm increments and also can be positioned at any depth in 25-mm increments using the optional grid straps. Conductive subpanels are unpainted galvanized steel. All necessary mounting hardware is included.

BULLETIN: P20



PPP466Conductive36014.1753020.87700 mm or tallerPPP470Steel36014.1763024.80700 mm or tallerPPP476Conductive36014.1773028.74700 mm or tallerPPP480Conductive36014.1773028.74700 mm or tallerPPP470Steel36014.1773028.74700 mm or tallerPPP471Steel36014.1773028.74700 mm or tallerPPP86Steel73528.9453020.871400 mm or tallerPPP86Conductive73528.9453020.871400 mm or tallerPPP87Steel73528.9473028.741400 mm or tallerPPP87Steel73528.9473028.741400 mm or tallerPPP87Steel73528.9473028.741400 mm or tallerPPP860Conductive73528.9473028.741400 mm or tallerPPP870Steel83532.8753020.871400 mm or tallerPPP970Steel83532.8753020.871400 mm or tallerPPP970Steel83532.8773028.741400 mm or tallerPPP970Steel83532.8773028.741400 mm or tallerPPP970Conductive83532.8773028.741400 mm or tallerPPP9706Conductive835<	Catalog Number	Material	H (mm)	H (in.)	W (mm)	W (in.)	Fits Frame
PPP47 Steel 360 14.17 630 24.80 700 nm or taller PPP46 Conductive 360 14.17 730 28.74 700 nm or taller PPP48 Steel 360 14.17 730 28.74 700 nm or taller PPP486 Conductive 360 14.17 730 28.74 700 nm or taller PPP486 Conductive 360 14.17 130 44.49 700 nm or taller PPP486 Steel 735 28.94 530 20.87 1400 nm or taller PPP866 Conductive 735 28.94 530 20.87 1400 nm or taller PPP866 Conductive 735 28.94 730 28.74 1400 nm or taller PPP866 Conductive 735 28.94 730 28.74 1400 nm or taller PPP866 Conductive 735 28.94 730 28.74 1400 nm or taller PPP866 Conductive 355 32.87 530	PPP46	Steel	360	14.17	530	20.87	700 mm or taller
PPP476 Conductive 360 14.17 630 24.80 700 mm or taller PPP48 Stel 360 14.17 730 28.74 700 mm or taller PPP486 Conductive 360 14.17 730 28.74 700 mm or taller PPP412 Steel 360 14.17 7130 44.49 700 mm or taller PPP86 Steel 735 28.94 530 20.87 1400 mm or taller PPP86 Conductive 735 28.94 630 24.80 1400 mm or taller PPP86 Steel 735 28.94 630 28.74 1400 mm or taller PPP86 Conductive 735 28.94 730 28.74 1400 mm or taller PPP86 Conductive 735 28.94 730 28.74 1400 mm or taller PPP86 Conductive 835 2.87 730 28.74 1400 mm or taller PPP96 Conductive 835 3.2.87 730 <t< td=""><td>PPP46G</td><td>Conductive</td><td>360</td><td>14.17</td><td>530</td><td>20.87</td><td>700 mm or taller</td></t<>	PPP46G	Conductive	360	14.17	530	20.87	700 mm or taller
PPP48 Steel 360 14.17 730 28.74 700 mm or taller PPP486 Conductive 360 14.17 730 28.74 700 mm or taller PPP412 Steel 360 14.17 130 44.49 700 mm or taller PPP86 Steel 735 28.94 530 20.87 1400 mm or taller PPP86 Conductive 735 28.94 530 28.74 1400 mm or taller PPP87 Steel 735 28.94 630 24.80 1400 mm or taller PPP886 Conductive 735 28.94 730 28.74 1400 mm or taller PPP886 Conductive 735 28.94 730 28.74 1400 mm or taller PPP886 Conductive 735 28.94 730 28.74 1400 mm or taller PPP866 Conductive 835 32.87 530 20.87 1400 mm or taller PPP976 Conductive 835 32.87 530	PPP47	Steel	360	14.17	630	24.80	700 mm or taller
PPP486Conductive36014.1773028.74700 mm or tallerPPP472Steel36014.17113044.49700 mm or tallerPPP866Steel73528.9453020.871400 mm or tallerPPP867Steel73528.9453024.801400 mm or tallerPPP868Steel73528.9473028.741400 mm or tallerPPP869Conductive73528.9473028.741400 mm or tallerPPP860Conductive73528.9473028.741400 mm or tallerPPP860Steel73528.9473028.741400 mm or tallerPPP860Steel73528.9473028.741400 mm or tallerPPP976Steel83532.8753020.871400 mm or tallerPPP976Conductive83532.8763024.801400 mm or tallerPPP976Conductive83532.8773028.741400 mm or tallerPPP976Conductive83532.8773028.741400 mm or tallerPPP970Steel83532.8773028.741400 mm or tallerPPP9706Conductive83532.8773028.741400 mm or tallerPPP9706Conductive83532.8793036.611400 mm or tallerPPP9706Conductive83532.8793036.611400 mm or tallerPPP9706 <td>PPP47G</td> <td>Conductive</td> <td>360</td> <td>14.17</td> <td>630</td> <td>24.80</td> <td>700 mm or taller</td>	PPP47G	Conductive	360	14.17	630	24.80	700 mm or taller
PPP412 Steel 360 14.17 1130 44.49 700 mm or taller PPP86 Steel 735 28.94 530 20.87 1400 mm or taller PPP86 Conductive 735 28.94 530 20.87 1400 mm or taller PPP87 Steel 735 28.94 630 24.80 1400 mm or taller PPP88 Steel 735 28.94 730 28.74 1400 mm or taller PPP88 Steel 735 28.94 730 28.74 1400 mm or taller PPP886 Conductive 735 28.94 730 28.74 1400 mm or taller PPP866 Conductive 835 32.87 530 20.87 1400 mm or taller PPP966 Conductive 835 32.87 630 24.80 1400 mm or taller PPP977 Steel 835 32.87 730 28.74 1400 mm or taller PPP976 Conductive 835 32.87 730 2	PPP48	Steel	360	14.17	730	28.74	700 mm or taller
PPP86Steel73528.9453020.871400 mm or tallerPPP867Steel73528.9453020.871400 mm or tallerPPP87Steel73528.9473028.741400 mm or tallerPPP886Conductive73528.9473028.741400 mm or tallerPPP886Conductive73528.9473028.741400 mm or tallerPPP876Steel73528.9473028.741400 mm or tallerPPP876Steel83532.8753020.871400 mm or tallerPPP976Steel83532.8753028.741400 mm or tallerPPP977Steel83532.8763024.801400 mm or tallerPPP976Conductive83532.8773028.741400 mm or tallerPPP976Steel83532.8773028.741400 mm or tallerPPP976Conductive83532.8773028.741400 mm or tallerPPP9706Conductive83532.8773028.741400 mm or tallerPPP9706Conductive83532.8793036.611400 mm or tallerPPP9706Conductive83532.8793036.611400 mm or tallerPPP9706Conductive83532.8793036.611400 mm or tallerPPP9706Conductive83532.8793036.611400 mm or tallerPPP9706 <td>PPP48G</td> <td>Conductive</td> <td>360</td> <td>14.17</td> <td>730</td> <td>28.74</td> <td>700 mm or taller</td>	PPP48G	Conductive	360	14.17	730	28.74	700 mm or taller
PPP866 Conductive 735 28.94 530 20.87 1400 mm or taller PPP87 Steel 735 28.94 630 24.80 1400 mm or taller PPP88 Steel 735 28.94 730 28.74 1400 mm or taller PPP886 Conductive 735 28.94 730 28.74 1400 mm or taller PPP886 Conductive 735 28.94 930 36.61 1400 mm or taller PPP810 Steel 335 32.87 530 20.87 1400 mm or taller PPP966 Conductive 835 32.87 530 20.87 1400 mm or taller PPP970 Steel 835 32.87 530 20.87 1400 mm or taller PPP976 Conductive 835 32.87 730 24.80 1400 mm or taller PPP976 Conductive 835 32.87 730 28.74 1400 mm or taller PPP976 Conductive 835 32.87 730	PPP412	Steel	360	14.17	1130	44.49	700 mm or taller
PPP87 Steel 735 28.94 630 24.80 1400 mm or taller PPP88 Steel 735 28.94 730 28.74 1400 mm or taller PPP86 Conductive 735 28.94 730 28.74 1400 mm or taller PPP86 Steel 735 28.94 730 28.74 1400 mm or taller PPP86 Steel 355 28.94 930 36.61 1400 mm or taller PPP966 Conductive 835 32.87 530 20.87 1400 mm or taller PPP976 Steel 835 32.87 630 24.80 1400 mm or taller PPP976 Conductive 835 32.87 730 28.74 1400 mm or taller PPP976 Steel 835 32.87 730 28.74 1400 mm or taller PPP986 Conductive 835 32.87 730 28.74 1400 mm or taller PPP986 Conductive 835 32.87 730 2	PPP86	Steel	735	28.94	530	20.87	1400 mm or taller
PPP88 Steel 735 28.94 730 28.74 1400 mm or taller PPP86 Conductive 735 28.94 730 28.74 1400 mm or taller PPP810 Steel 735 28.94 730 28.74 1400 mm or taller PPP810 Steel 735 28.94 930 36.61 1400 mm or taller PPP966 Steel 835 32.87 530 20.87 1400 mm or taller PPP966 Conductive 835 32.87 630 24.80 1400 mm or taller PPP976 Steel 835 32.87 730 28.74 1400 mm or taller PPP976 Conductive 835 32.87 730 24.80 1400 mm or taller PPP976 Conductive 835 32.87 730 28.74 1400 mm or taller PPP970 Steel 835 32.87 730 28.74 1400 mm or taller PPP970 Conductive 835 32.87 930 <t< td=""><td>PPP86G</td><td>Conductive</td><td>735</td><td>28.94</td><td>530</td><td>20.87</td><td>1400 mm or taller</td></t<>	PPP86G	Conductive	735	28.94	530	20.87	1400 mm or taller
PPP886 Conductive 735 28.94 730 28.74 1400 mm or taller PPP810 Steel 735 28.94 930 36.61 1400 mm or taller PPP96 Steel 835 32.87 530 20.87 1400 mm or taller PPP96 Conductive 835 32.87 530 24.80 1400 mm or taller PPP97 Steel 835 32.87 630 24.80 1400 mm or taller PPP976 Conductive 835 32.87 630 24.80 1400 mm or taller PPP976 Conductive 835 32.87 730 28.74 1400 mm or taller PPP976 Conductive 835 32.87 730 28.74 1400 mm or taller PPP986 Conductive 835 32.87 930 36.61 1400 mm or taller PPP9106 Conductive 835 32.87 930 36.61 1400 mm or taller PPP9106 Conductive 835 32.87 930	PPP87	Steel	735	28.94	630	24.80	1400 mm or taller
Steel 735 28.94 930 36.61 1400 mm or taller PPP96 Steel 835 32.87 530 20.87 1400 mm or taller PPP96 Conductive 835 32.87 530 20.87 1400 mm or taller PPP96 Conductive 835 32.87 530 24.80 1400 mm or taller PPP97 Steel 835 32.87 630 24.80 1400 mm or taller PPP976 Conductive 835 32.87 730 28.74 1400 mm or taller PPP986 Steel 835 32.87 730 28.74 1400 mm or taller PPP970 Steel 835 32.87 730 28.74 1400 mm or taller PPP980 Conductive 835 32.87 730 28.74 1400 mm or taller PPP970 Steel 835 32.87 730 28.74 1400 mm or taller PPP9706 Conductive 835 32.87 730 28.74	PPP88	Steel	735	28.94	730	28.74	1400 mm or taller
PPP96 Steel 835 32.87 530 20.87 1400 mm or taller PPP96G Conductive 835 32.87 530 20.87 1400 mm or taller PPP97G Steel 835 32.87 630 24.80 1400 mm or taller PPP97G Conductive 835 32.87 630 24.80 1400 mm or taller PPP97G Conductive 835 32.87 730 28.74 1400 mm or taller PPP98G Conductive 835 32.87 730 28.74 1400 mm or taller PPP98G Conductive 835 32.87 730 28.74 1400 mm or taller PPP98G Conductive 835 32.87 730 28.74 1400 mm or taller PPP910G Conductive 835 32.87 930 36.61 1400 mm or taller PPP10G Conductive 835 32.87 930 36.61 1400 mm or taller PPP10G Conductive 935 36.81 <	PPP88G	Conductive	735	28.94	730	28.74	1400 mm or taller
PPP96G Conductive 835 32.87 530 20.87 1400 mm or taller PPP97 Steel 835 32.87 630 24.80 1400 mm or taller PPP976 Conductive 835 32.87 630 24.80 1400 mm or taller PPP976 Conductive 835 32.87 630 24.80 1400 mm or taller PPP976 Conductive 835 32.87 730 28.74 1400 mm or taller PPP986 Conductive 835 32.87 730 28.74 1400 mm or taller PPP9106 Conductive 835 32.87 930 36.61 1400 mm or taller PPP9106 Conductive 835 32.87 930 36.61 1400 mm or taller PPP106 Conductive 835 32.87 930 36.61 1400 mm or taller PPP106 Conductive 835 32.87 930 36.61 1400 mm or taller PPP106 Conductive 935 36.81	PPP810	Steel	735	28.94	930	36.61	1400 mm or taller
PPP97 Steel 835 32.87 630 24.80 1400 mm or taller PPP976 Conductive 835 32.87 630 24.80 1400 mm or taller PPP98 Steel 835 32.87 730 28.74 1400 mm or taller PPP98 Conductive 835 32.87 730 28.74 1400 mm or taller PPP980 Conductive 835 32.87 730 28.74 1400 mm or taller PPP101 Steel 835 32.87 930 36.61 1400 mm or taller PPP106 Conductive 835 32.87 930 36.61 1400 mm or taller PPP106 Conductive 835 32.87 930 36.61 1400 mm or taller PPP106 Steel 935 36.81 530 20.87 1400 mm or taller PPP108 Steel 935 36.81 730 28.74 1400 mm or taller PPP108 Steel 935 36.81 730 <th< td=""><td>PPP96</td><td>Steel</td><td>835</td><td>32.87</td><td>530</td><td>20.87</td><td>1400 mm or taller</td></th<>	PPP96	Steel	835	32.87	530	20.87	1400 mm or taller
PPP976 Conductive 835 32.87 630 24.80 1400 mm or taller PPP8 Steel 835 32.87 730 28.74 1400 mm or taller PPP86 Conductive 835 32.87 730 28.74 1400 mm or taller PPP960 Conductive 835 32.87 730 28.74 1400 mm or taller PPP9106 Conductive 835 32.87 930 36.61 1400 mm or taller PPP106 Conductive 835 32.87 930 36.61 1400 mm or taller PPP106 Conductive 835 32.87 930 36.61 1400 mm or taller PPP106 Conductive 935 36.81 530 20.87 1400 mm or taller PPP108 Steel 935 36.81 730 28.74 1400 mm or taller PPP108 Steel 935 36.81 730 28.74 1400 mm or taller PPP1086 Conductive 935 36.81 730	PPP96G	Conductive	835	32.87	530	20.87	1400 mm or taller
PPP98 Steel 835 32.87 730 28.74 1400 mm or taller PPP986 Conductive 835 32.87 730 28.74 1400 mm or taller PPP906 Steel 835 32.87 730 28.74 1400 mm or taller PPP106 Conductive 835 32.87 930 36.61 1400 mm or taller PPP106 Conductive 835 32.87 930 36.61 1400 mm or taller PPP106 Conductive 835 32.87 930 36.61 1400 mm or taller PPP106 Conductive 935 36.81 530 20.87 1400 mm or taller PPP1086 Conductive 935 36.81 730 28.74 1400 mm or taller PPP1086 Conductive 935 36.81 730 28.74 1400 mm or taller PPP1086 Conductive 935 36.81 730 28.74 1400 mm or taller PPP1086 Conductive 935 36.81	PPP97	Steel	835	32.87	630	24.80	1400 mm or taller
PPP986 Conductive 835 32.87 730 28.74 1400 mm or taller PPP910 Steel 835 32.87 930 36.61 1400 mm or taller PPP106 Conductive 835 32.87 930 36.61 1400 mm or taller PPP106 Conductive 835 32.87 930 36.61 1400 mm or taller PPP106 Conductive 935 36.81 530 20.87 1400 mm or taller PPP1066 Conductive 935 36.81 530 20.87 1400 mm or taller PPP1086 Steel 935 36.81 730 28.74 1400 mm or taller PPP1086 Conductive 935 36.81 730 28.74 1400 mm or taller PPP1086 Conductive 935 36.81 730 28.74 1400 mm or taller PPP1086 Conductive 935 36.81 730 28.74 1400 mm or taller PPP1086 Conductive 935 36.81	PPP97G	Conductive	835	32.87	630	24.80	1400 mm or taller
PPP910 Steel 835 32.87 930 36.61 1400 mm or taller PPP106 Conductive 835 32.87 930 36.61 1400 mm or taller PPP106 Steel 935 36.81 530 20.87 1400 mm or taller PPP106 Conductive 935 36.81 530 20.87 1400 mm or taller PPP108 Steel 935 36.81 730 28.74 1400 mm or taller PPP108 Conductive 935 36.81 730 28.74 1400 mm or taller PPP108 Steel 935 36.81 730 28.74 1400 mm or taller PPP108 Steel 1035 40.75 530 20.87 1400 mm or taller	PPP98	Steel	835	32.87	730	28.74	1400 mm or taller
PPP106 Conductive 835 32.87 930 36.61 1400 mm or taller PPP106 Steel 935 36.81 530 20.87 1400 mm or taller PPP106 Conductive 935 36.81 530 20.87 1400 mm or taller PPP108 Steel 935 36.81 730 28.74 1400 mm or taller PPP108 Conductive 935 36.81 730 28.74 1400 mm or taller PPP108 Conductive 935 36.81 730 28.74 1400 mm or taller PPP108 Steel 1035 40.75 530 20.87 1400 mm or taller	PPP98G	Conductive	835	32.87	730	28.74	1400 mm or taller
PP106 Steel 935 36.81 530 20.87 1400 mm or taller PP1066 Conductive 935 36.81 530 20.87 1400 mm or taller PP108 Steel 935 36.81 730 28.74 1400 mm or taller PP1086 Conductive 935 36.81 730 28.74 1400 mm or taller PP1086 Steel 1035 40.75 530 20.87 1400 mm or taller	PPP910	Steel	835	32.87	930	36.61	1400 mm or taller
PPP106G Conductive 935 36.81 530 20.87 1400 mm or taller PP108 Steel 935 36.81 730 28.74 1400 mm or taller PP108G Conductive 935 36.81 730 28.74 1400 mm or taller PP108G Conductive 935 36.81 730 28.74 1400 mm or taller PP116 Steel 1035 40.75 530 20.87 1400 mm or taller	PPP910G	Conductive	835	32.87	930	36.61	1400 mm or taller
PP108 Steel 935 36.81 730 28.74 1400 mm or taller PP1086 Conductive 935 36.81 730 28.74 1400 mm or taller PP1086 Steel 1035 40.75 530 20.87 1400 mm or taller	PPP106	Steel	935	36.81	530	20.87	1400 mm or taller
PPP108G Conductive 935 36.81 730 28.74 1400 mm or taller PPP116 Steel 1035 40.75 530 20.87 1400 mm or taller	PPP106G	Conductive	935	36.81	530	20.87	1400 mm or taller
2PP116 Steel 1035 40.75 530 20.87 1400 mm or taller	PPP108	Steel	935	36.81	730	28.74	1400 mm or taller
	PPP108G	Conductive	935	36.81	730	28.74	1400 mm or taller
PPP116G Conductive 1035 40.75 530 20.87 1400 mm or taller	PPP116	Steel	1035	40.75	530	20.87	1400 mm or taller
	PPP116G	Conductive	1035	40.75	530	20.87	1400 mm or taller

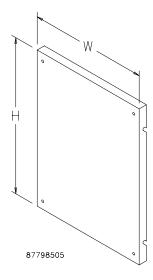
Hoffman

SIDE-MOUNT SUBPANEL



Side-mounted panels can be installed on the interior sides of frames. The panel and all the hardware needed to attach the subpanels to a frame are included. Hardware is plated. Panels are 12 gauge steel with a white finish. Conductive panels are unpainted galvanized steel.

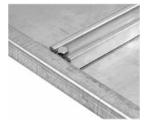
BULLETIN: P20



Catalog Number	Material	H (mm)	H (in.)	W (mm)	W (in.)
PPFSM76	Steel	608	23.94	447	17.60
PPFSM76G	Conductive	608	23.94	447	17.60
PPFSM145	Steel	1308	51.50	347	13.66
PPFSM145G	Conductive	1308	51.50	347	13.66
PPFSM146	Steel	1308	51.50	447	17.60
PPFSM148	Steel	1308	51.50	647	25.47
PPFSM164G	Conductive	1508	59.37	247	9.72
PPFSM165G	Conductive	1508	59.37	347	13.66
PPFSM166	Steel	1508	59.37	447	17.60
PPFSM166G	Conductive	1508	59.37	447	17.60
PPFSM168	Steel	1508	59.37	647	25.47
PPFSM168G	Conductive	1508	59.37	647	25.47
PPFSM169	Steel	1508	59.37	747	29.41
PPFSM169G	Conductive	1508	59.37	747	29.41
PPFSM184	Steel	1708	67.24	247	9.72
PPFSM185	Steel	1708	67.24	347	13.66
PPFSM185G	Conductive	1708	67.24	347	13.66
PPFSM186	Steel	1708	67.24	447	17.60
PPFSM186G	Conductive	1708	67.24	447	17.60
PPFSM188	Steel	1708	67.24	647	25.47
PPFSM188G	Conductive	1708	67.24	647	25.47
PPFSM189G	Conductive	1708	67.24	747	29.41
PPFSM204	Steel	1908	75.12	247	9.72
PPFSM204G	Conductive	1908	75.12	247	9.72
PPFSM205	Steel	1908	75.12	347	13.66
PPFSM205G	Conductive	1908	75.12	347	13.66
PPFSM206	Steel	1908	75.12	447	17.60
PPFSM206G	Conductive	1908	75.12	447	17.60
PPFSM208	Steel	1908	75.12	647	25.47
PPFSM208G	Conductive	1908	75.12	647	25.47
PPFSM209	Steel	1908	75.12	747	29.41
PPFSM209G	Conductive	1908	75.12	747	29.41
PPFSM225	Steel	2108	82.99	347	13.66
PPFSM225G	Conductive	2108	82.99	347	13.66
PPFSM226	Steel	2108	82.99	447	17.60
PPFSM226G	Conductive	2108	82.99	447	17.60
PPFSM228	Steel	2108	82.99	647	25.47
PPFSM228G	Conductive	2108	82.99	647	25.47
PPFSM229	Steel	2108	82.99	747	29.41
PPFSM229G	Conductive	2108	82.99	747	29.41

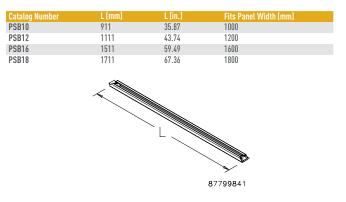


PANEL SUPPORT BRACE



Panel Support Braces give additional support to single- and double-bay panels in heavy loading applications and minimize the vibration created by components mounted on the panel. Braces can be installed on existing systems without removing the panel. Panel support braces are furnished in pairs. Braces are unpainted galvanized steel.

BULLETIN: P20



SWING-OUT PANEL A-T-O



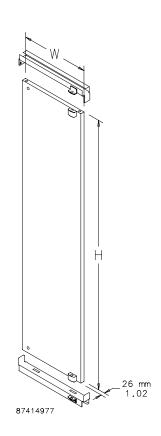
Swing-Out Panels allow a front-mounted panel to pivot out of an enclosure frame opening. This accessory includes a white panel and all the necessary hardware.
Swing-Out Panels are available for 600-, 700- and 800-mm wide

- enclosures
- Panels provide 170 degrees of rotation, with capability to hinge from the right or left side
- Spring-loaded pivot post allows for easy installation
 Supports have a white finish. Hinge blocks are anodized black.
- Quarter-turn latches are provided to secure the Swing-Out Panel in the closed position

BULLETIN: P20

5

Catalog Number	H (mm)	H (in.)	W (mm)	W (in.)	Fits Frame	Fits Frame Width
PSP76	538	21.18	515	20.28	700 or taller	600
PSP146	1238	48.74	515	20.28	1400 or taller	600
PSP186	1638	64.49	515	20.28	1800 or taller	600
PSP206	1838	72.36	515	20.28	2000 or taller	600
PSP226	2038	80.24	515	20.28	2200 tall	600
PSP147	1238	48.74	615	24.21	1400 or taller	700
PSP78	538	21.18	715	28.15	700 or taller	800
PSP148	1238	48.74	715	28.15	1400 or taller	800
PSP168	1438	56.61	715	28.15	1600 or taller	800
PSP188	1638	64.49	715	28.15	1800 or taller	800
PSP208	1838	72.36	715	28.15	2000 or taller	800
PSP228	2038	80.24	715	28.15	2200 tall	800



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Holes and

10/10

20/20

30/31



GROUNDING BAR SYSTEM



PROLINE™ GROUNDING KIT



The Grounding Kit allows a PROLINE[™] enclosure to be grounded to VDE specifications. Includes six 12 gauge wires 411-mm (16.19-in.) long with ring terminations and M6 mounting hardware.

BULLETIN: P9

Length BetweenRing TerminalWireRing TerminalsHole DiameterCatalog NumberSizemm/in.mm/in.PGK12 ga.411716.19.29

Transformer Rails are used to mount heavy components and

The rails are slotted to fit the integral mounting holes in the

Four clip nuts and screws are furnished to mount rails to frame
Four M10 clamping nuts and bolts are furnished to attach

Rails can be installed side to side in the PROLINE™ frame for

Three sizes of grounding bars and insulated mounting brackets are available. Bars are plated copper with M6 and M5 tapped holes to provide a common point for grounding equipment. Fits all enclosures if mounted vertically. See table for horizontal mounting.

200

7.87

400

600

23.62

15.75

21 02

28.90

44.65

3/5

9/11

15/17

transformers in the bottom of an enclosure.

All mounting hardware is included

534

734

1134

UL Component Recognized; File No. E61997

Fits 400-mm deep frame

front to back horizontally

Fits 600-mm deep frame

front to back horizontally

Fits 800-mm deep frame

front to back horizontally

frame

BULLETIN: P20

BULLETIN: P20

atalog Number

PGS2K

PGS4K

PGS6K

PTR6

PTR8

PTR12

equipment to the rails

component mounting

INDUSTRY STANDARDS

GRID SYSTEM



Grid Strap installation (side to side)



Grid strap installation (vertical and horizontal grid straps)



Full-height vertical grid strap

A Grid System provides a flexible extension to the internal mounting system already furnished with the PROLINE™ frame. The Grid System allows flexible mounting capabilities in height, width and depth. Accessories or equipment can be attached directly to the Grid System using either cage nuts or front-loading cage nuts.

6



CENTER UPRIGHT A-T-O



Center Uprights are vertical channels that attach to the frame (top and bottom). Can be used in 800-, 1000-, 1200- and 1600-mm wide frames to facilitate the installation of accessories for 600-mm wide frames and 19-in. rack accessories in wider frames. The vertical hole pattern matches the vertical hole pattern in the frame. Center uprights are made of 12 gauge steel and finished with RAL 7035 textured light-gray polyester powder paint. Center uprights are furnished in pairs and include mounting hardware.

BULLETIN: P20

GRID STRAPS A-T-O

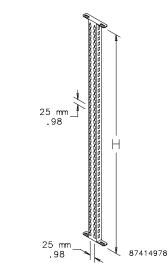


Grid Straps are 14 gauge plated steel. They are provided with specially designed rectangular holes to allow the use of cage nuts or front-loading cage nuts. Mounting holes are provided on 25-mm centers. Grid Straps are available with either 1 row or 3 rows of holes and are furnished in pairs. Mounting hardware to attach Grid Straps to the frame or to other Grid Straps is included.

- Can be mounted front-to-back horizontally across the bottom or sides of the PROLINE™ frame
 Can be mounted left-to-right horizontally between front-to-back
- pairs or from the sides of the PROLINE frame
- Can be mounted vertically between horizontally mounted Grid Straps

BULLETIN: DPY, P20

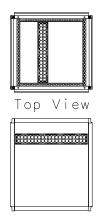
Catalog Number	H (mm)	H (in.)	Fits Frame Height	
PCU7	625	24.61	700	
PCU16	1525	60.04	1600	
PCU18	1725	67.91	1800	
PCU20	1925	75.79	2000	
PCU22	2125	83.66	2200	



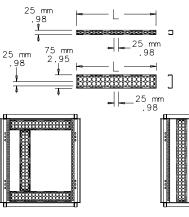
Catalog Number	Hole Pattern	L (mm)	L (in.)	Fits Frame Depth	Fits Frame Width
PGH1S5	One Row	342	13.46	500	
PGH1S6	One Row	442	17.40	600	-
PGH1S7	One Row	542	21.34	700	600
PGH1S8	One Row	642	25.28	800	700
PGH1S9	One Row	742	29.21	900	800
PGH1S10	One Row	842	33.15	1000	900
PGH1S11	One Row	942	37.08	-	1000
PGH1S13	One Row	1142	44.96	-	1200
PGH1S17	One Row	1542	60.71	-	1600
PGH3S4	Three Row	242	9.53	400	-
PGH3S5	Three Row	342	13.46	500	-
PGH3S6	Three Row	442	17.40	600	-
PGH3S7	Three Row	542	21.34	700	600
PGH3S8	Three Row	642	25.28	800	700
PGH3S9	Three Row	742	29.21	900	800
PGH3S10	Three Row	842	33.15	1000	300
PGH3S11	Three Row	942	37.08	1100	1000
PGH3S12	Three Row	1242	48.89	1200	-
PGH3S13	Three Row	1142	44.96	-	1200
PGH3S17	Three Row	1542	60.71	-	1600

PROLINE™ INTERNAL COMPONENTS PANEL AND GRID MOUNTING SYSTEM

Hoffman







Side View Vertical and Horizontal Installation

Side View Vertical Installation 87415121

FULL-HEIGHT VERTICAL GRID STRAPS



A-T-O Grid Straps provide a vertical extension of the frame holes in the sides of the PROLINE[™] frame. They are sold in pairs with mounting hardware included. Vertical Grid Straps are 14 gauge plated steel. Three-row 25-mm hole spacing allows the use of cage nuts or frontloading cage nuts.

BULL	ETIN:	P20

PGH3S7V 595 23.43 700 PGH3S14V 50.98 1400 1295 PGH3S16V 1495 58.86 1600 PGH3S18V 1695 66.73 1800 PGH3S20V 2000 1895 74.61 PGH3S22V 2095 82.48 2200

PROLINE™ FASTENER PACKAGES



Use to fasten components to the grid system. PGF Packages include 20 front-loading clip nuts (M6) and 20 combination-drive washer-head bolts (M6).

Grounding Package is used with the rectangular holes in the PROLINE™ frame to provide electrical continuity between the frame and the grid system. ASM5T Package is used with PROLINE frames having round holes. Package includes 20 M5 self-tapping screws.

BULLETIN: DACCY, P20

Catalog Number	Description	Use in	Pkg. Qty.
ASM5T	M5 x 12 mm thread-forming Phillips hex head screws	Round holes	20
PGFM6	Standard Package - M6 cage nuts and bolts	Rectangular holes	20
PGFGM6	Grounding Package - M6 grounding cage nuts and bolts	Tapped holes	20