OCP Engineering Workshop 2017

Delta Electronics; INC
PSBG IDC 2017 Sep.



- Modular Dimensions in Standard

- Flexible Power Shelf Height Size

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Modular Dimensions in Standard

- **Enable multiple configurations racks.**
- **No real physical size change on rack.**



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Modular Dimensions (1)

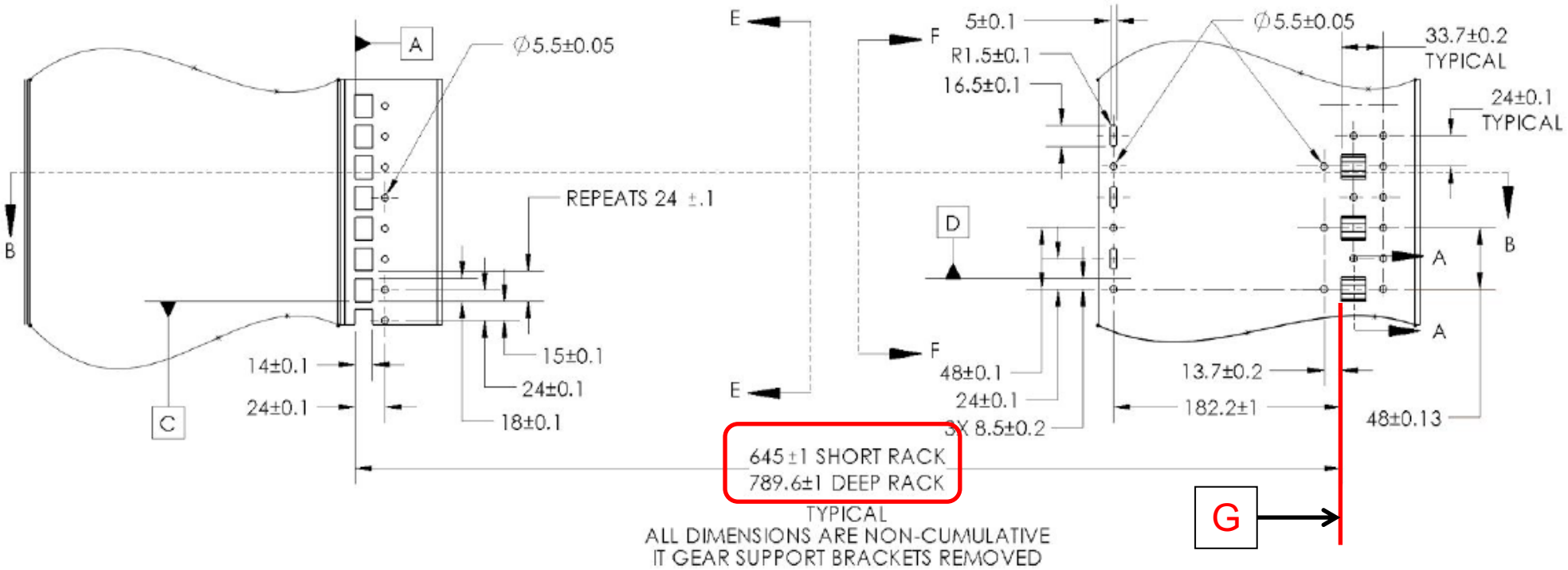
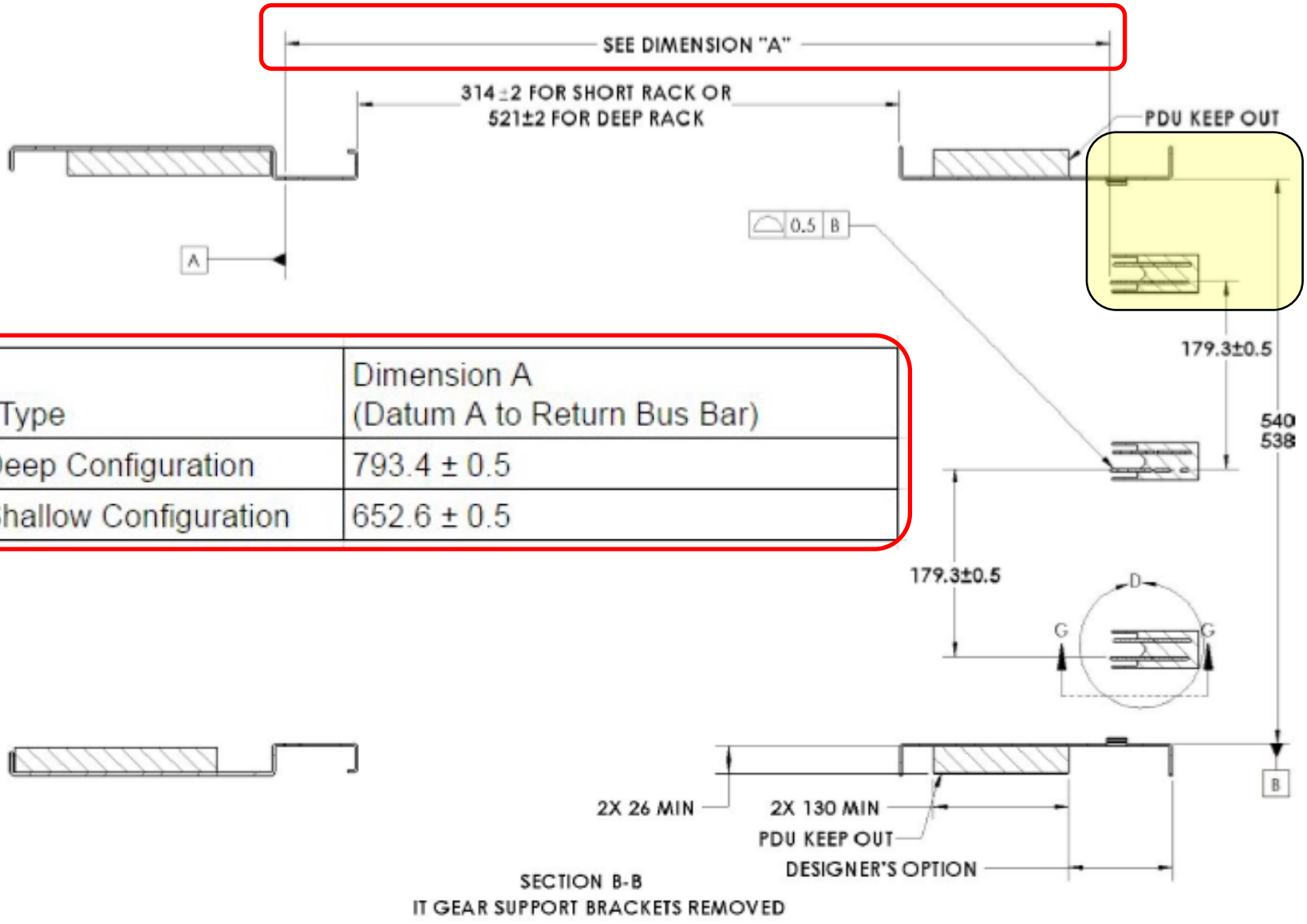


Figure 3: Open Rack Frame Detail

Table 1	42” Rack	30” Rack
Dim. A-G, “Lock” to “Stop”	789.6 +/- 1.0	645.0 +/- 1.0

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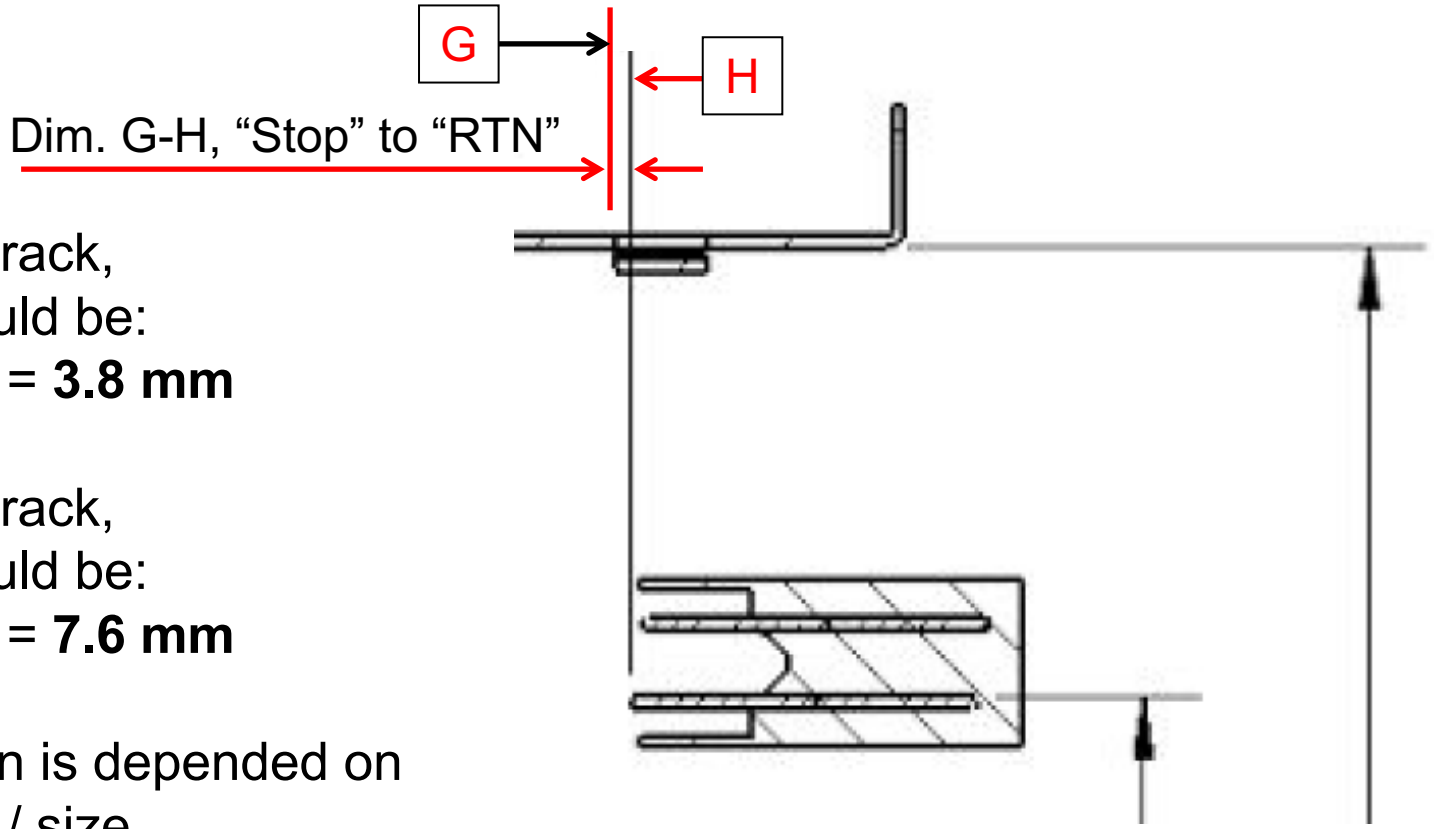
Modular Dimensions (2)



Rack Type	Dimension A (Datum A to Return Bus Bar)
12V Deep Configuration	793.4 ± 0.5
48V Shallow Configuration	652.6 ± 0.5

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Modular Dimensions (3)



For 12V OCP rack,
Dim. G-H should be:
793.4 – 789.6 = **3.8 mm**

For 48V OCP rack,
Dim. G-H should be:
652.6 – 645.0 = **7.6 mm**

This dimension is depended on used clip type / size.

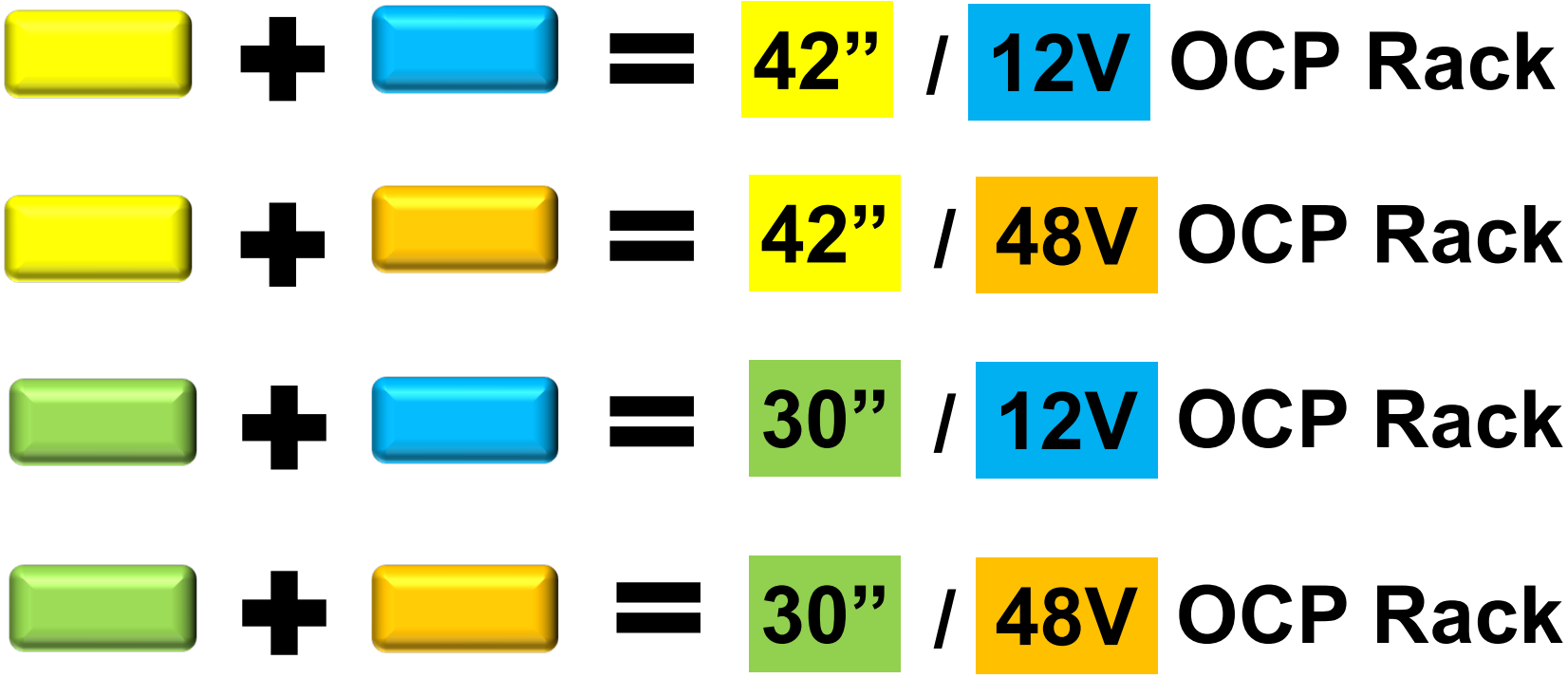
Table 2	12V Rack	48V Rack
Dim. G-H, “Stop” to “RTN”	**3.8 mm**	**7.6 mm**

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Multiple Configuration Racks

Table 1	42” Rack	30” Rack
Dim. A-G, “Lock” to “Stop”	789.6 +/- 1.0	645.0 +/- 1.0

Table 2	12V Rack	48V Rack
Dim. G-H, “Stop” to “RTN”	3.8 mm	7.6 mm



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Flexible Power Shelf Height Size

- **Define power shelf installed bottom datum.**
- **Propose bus bar connection patterns to for multiple power shelf form factors**



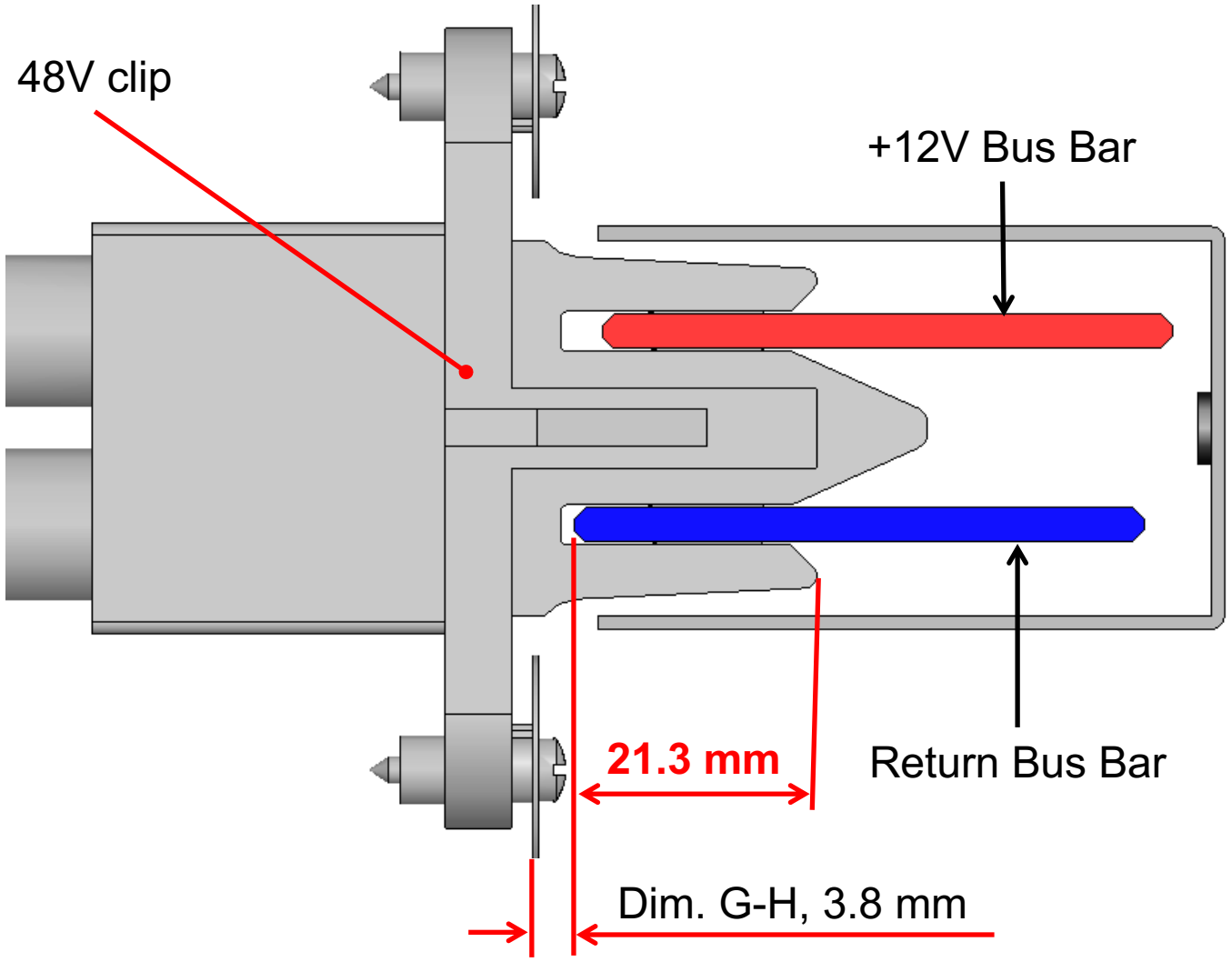
12V / 18 KW / 1OU Power shelf



48V / 36 KW / 2OU Power shelf

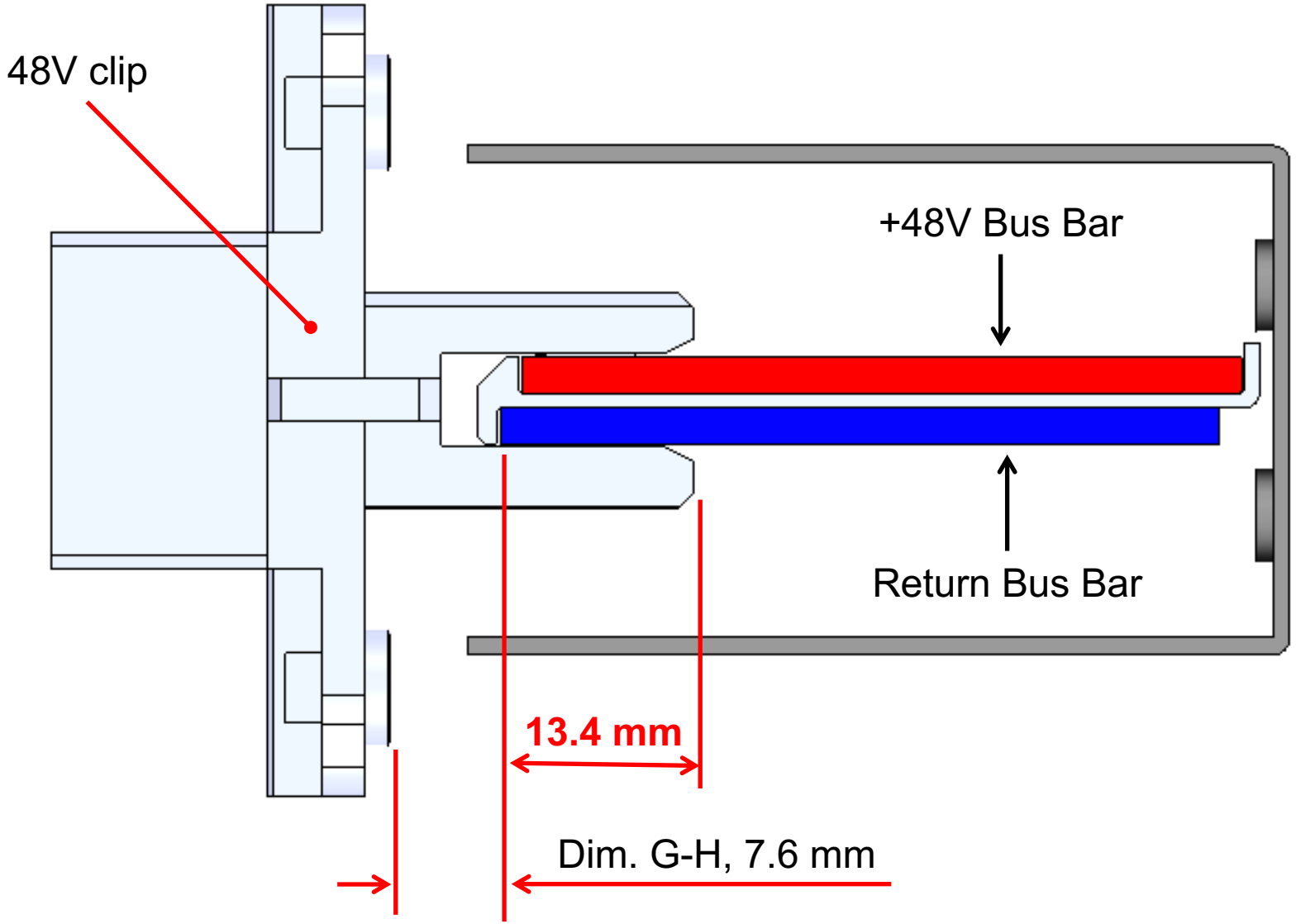
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Clip mated on 12V Bus Bar



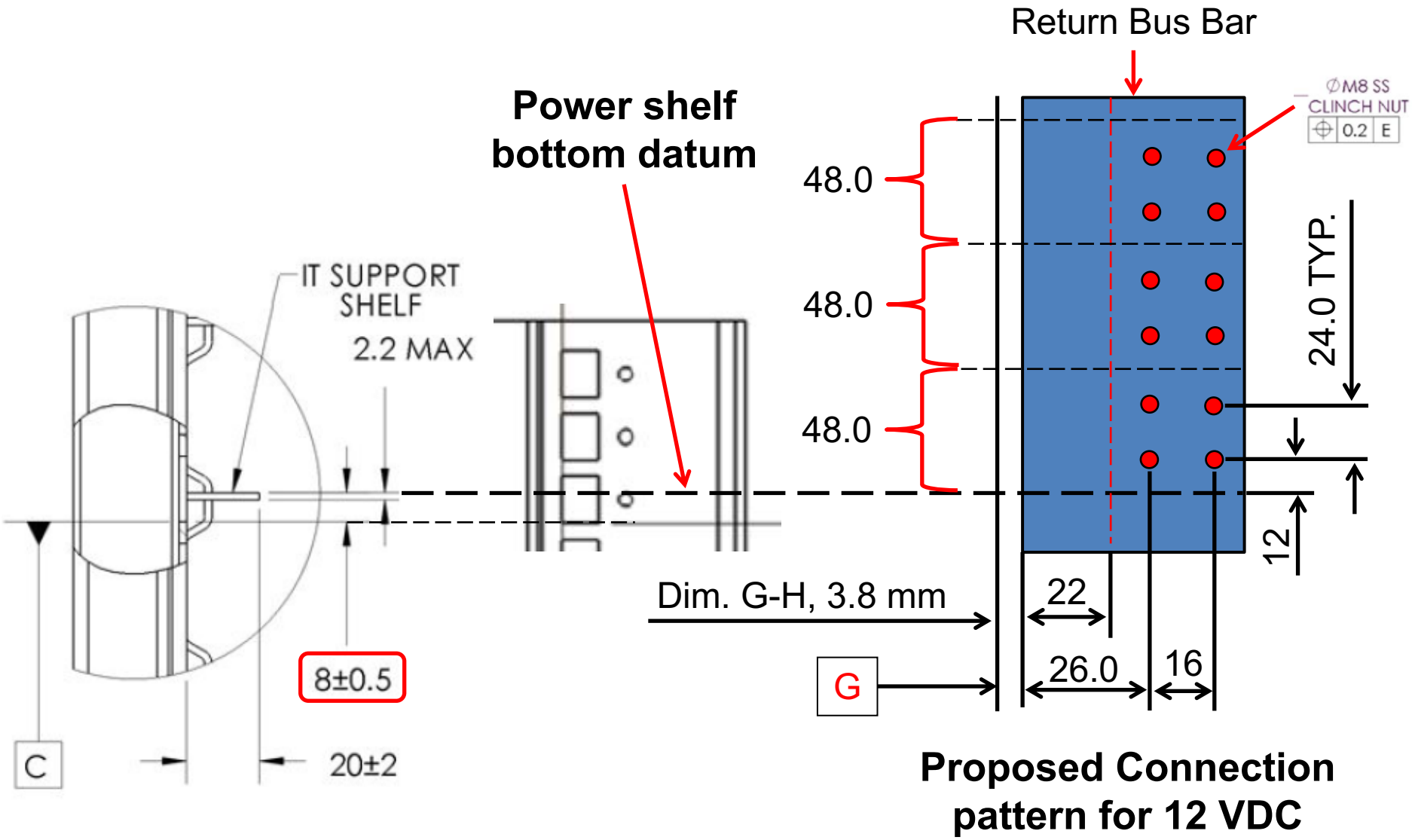
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Clip mated on 48V Bus Bar



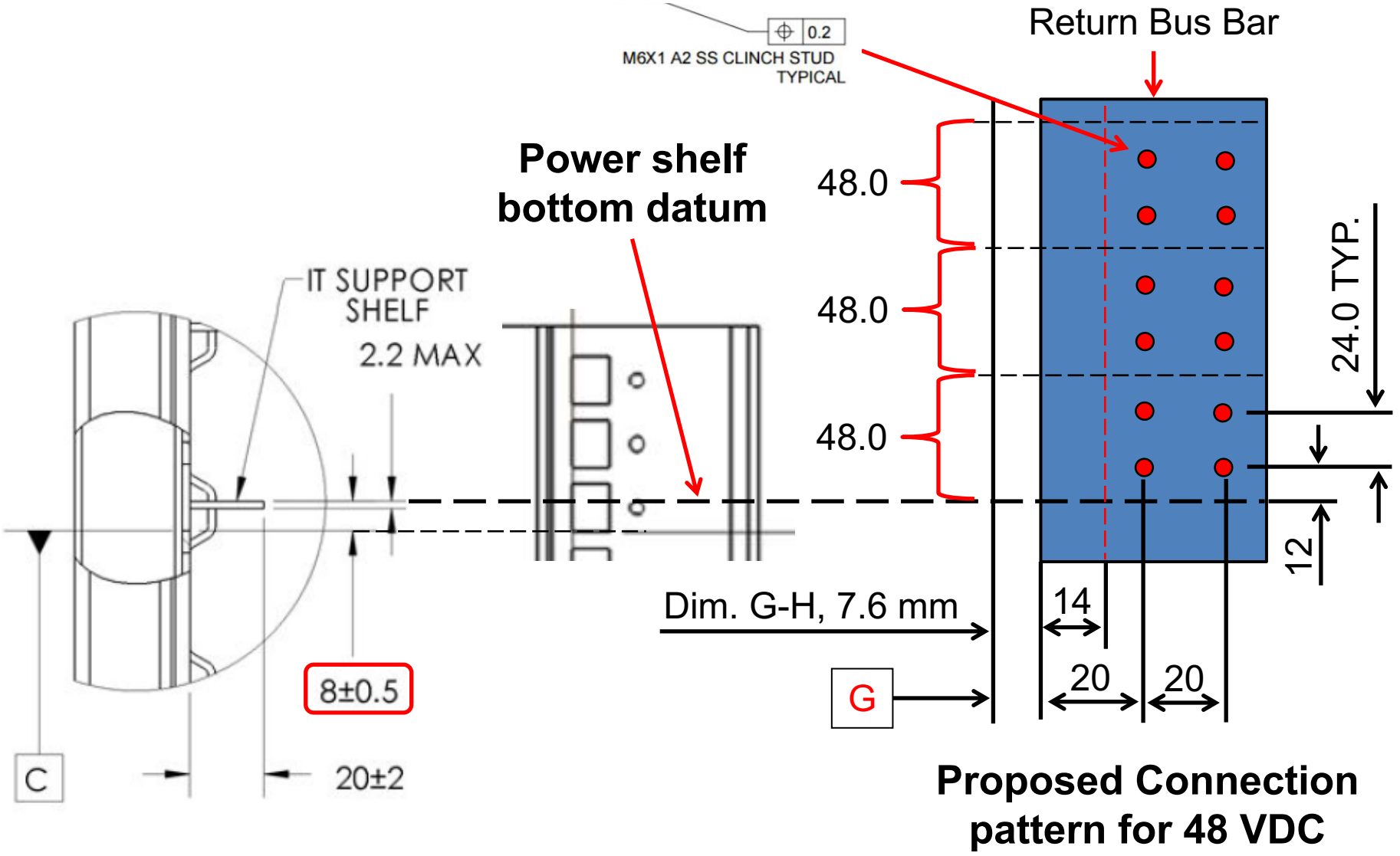
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Power Shelf in 12V OCP Rack



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Power Shelf in 48V OCP Rack



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