

Optosource

Solder-Free Holder For Bridgelux V Series LEDs

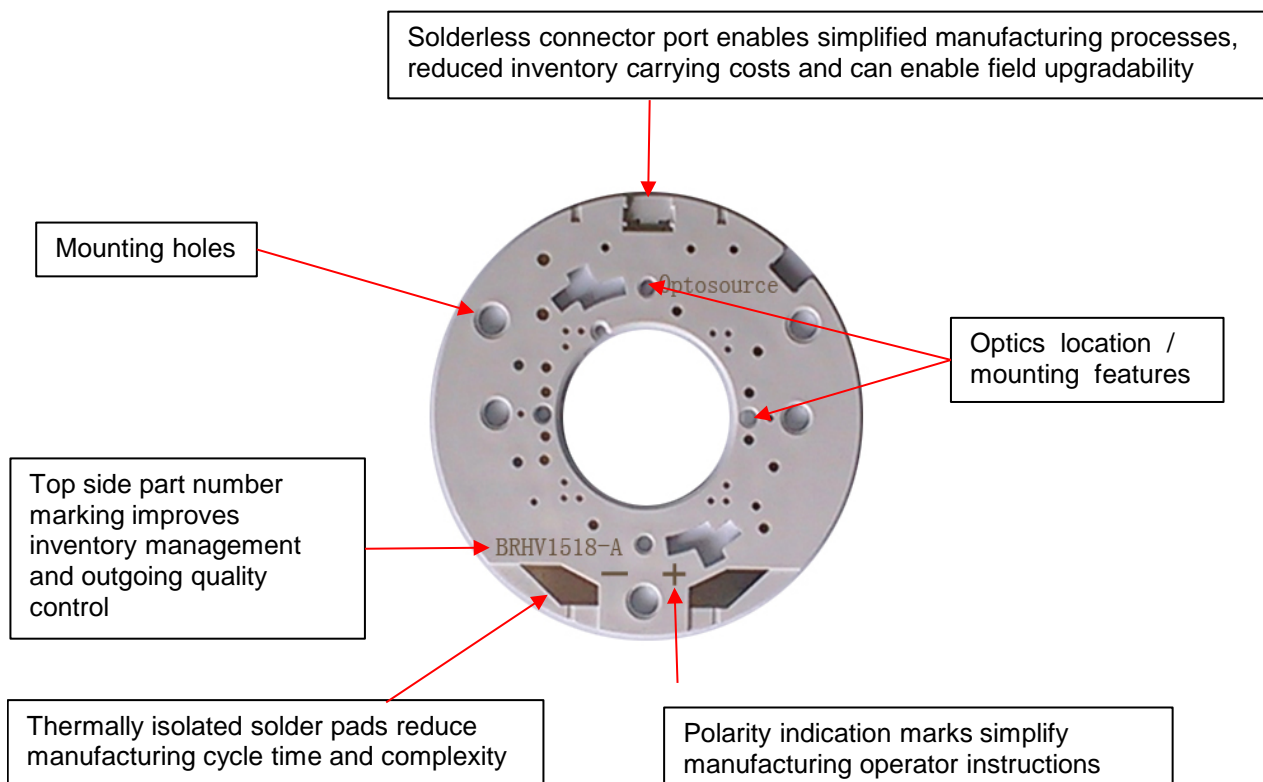
Introduction

These new solder-free holder sources simplify luminaire design and manufacturing processes, improve light quality, and define a optical platform for future functionality integration.

These solder-free holder is available in three different dimension (AL-Board) configurations and three different LES (light emitting surface) configurations and has been engineered to enabling new degrees of flexibility in luminaire design optimization.

These solder-free includes an on board connector port to enable solder-free electrical interconnect and simple easy to use mounting features to enable plug-and-play installation. And set aside holes optical components.

Product Feature Map



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Product Nomenclature

The part number is explained as follows: BRHV010-C

Where:

BR – Bridgelux product family

H – Holder

V – V series

010 – V 10 COB

C – Version



Types

Order Code	COB	Material	Dimension	Colour	Max Ambient Temperature	Suggested Screw Size	Suggested Torque N-cm (lbf-in)	ROSH
BRHV068-F	V6/V8	PBT	Ø28×2	White	150°C	M2.5	23(2)	YES
BRHV010-C	V10		Ø28×2					
BRHV013-A	V13		Ø40×2			M3	34(3)	
BRHV1518-A	V15/V18		Ø50×2					

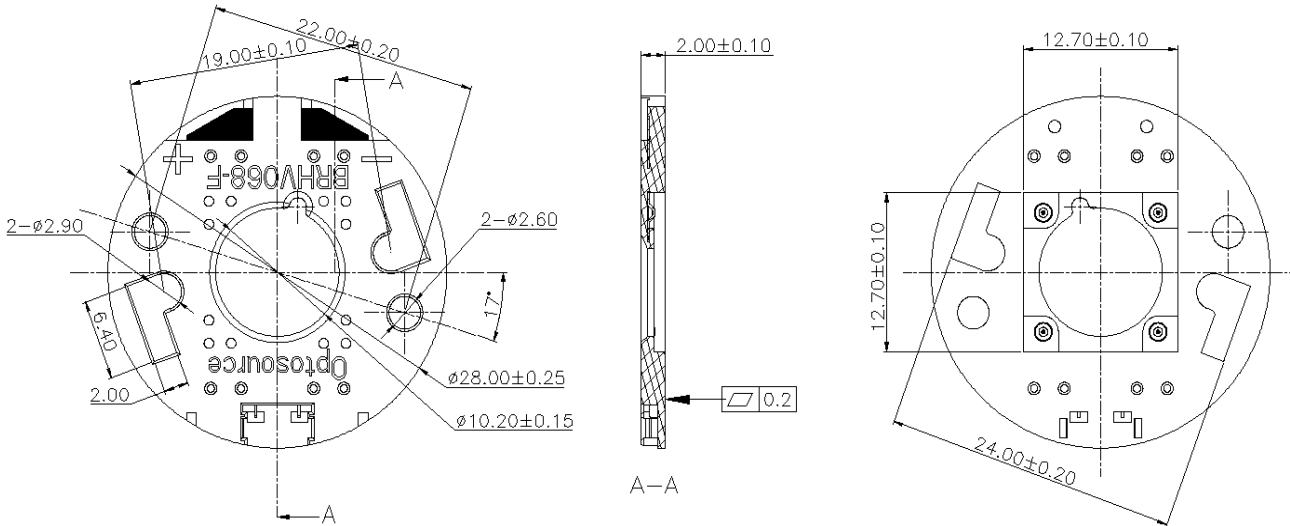
Order Code	Module	Colour	Material	Max Ambient Temperature	Sectional Area	Insulation Diameter	ROSH
BRCW300-A	Wire_20AWG	Red/Black	PVC	105°C	0.08mm ²	0.7mm	YES
	Wire_28AWG	Red/Black	FEP	200°C	0.52mm ²	1.8mm	
	Connector	Black	PA66	150°C	/	/	

NOTE: 1. Products recommended storage at 25°C and relative humidity 60%.
2. The connector wire holder unmating force < 0.3kg.

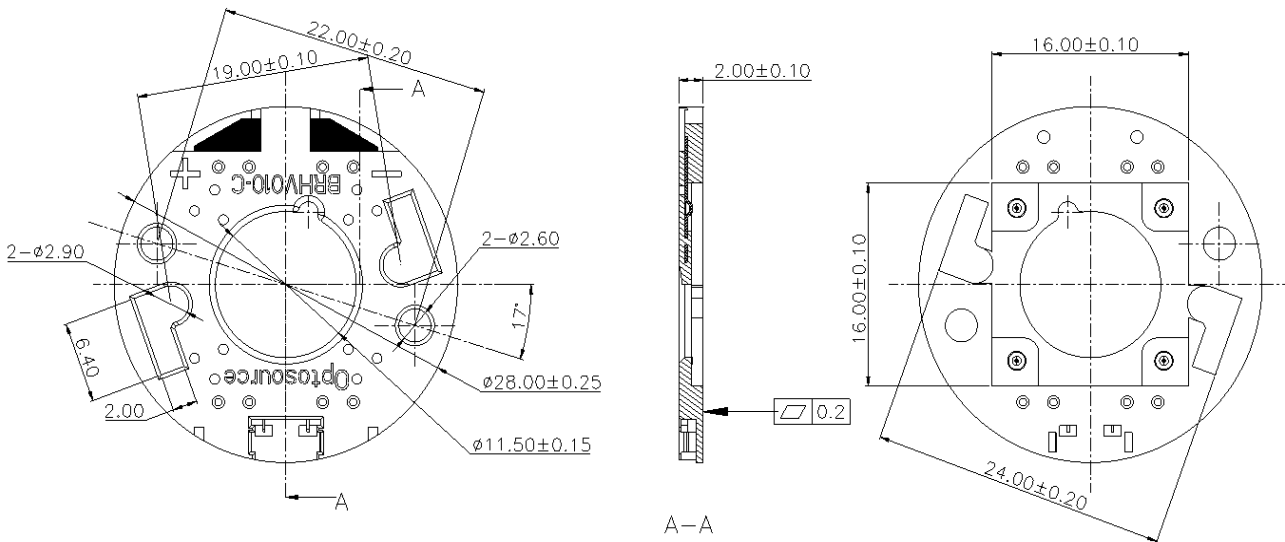
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Drawings

BRHV068-F



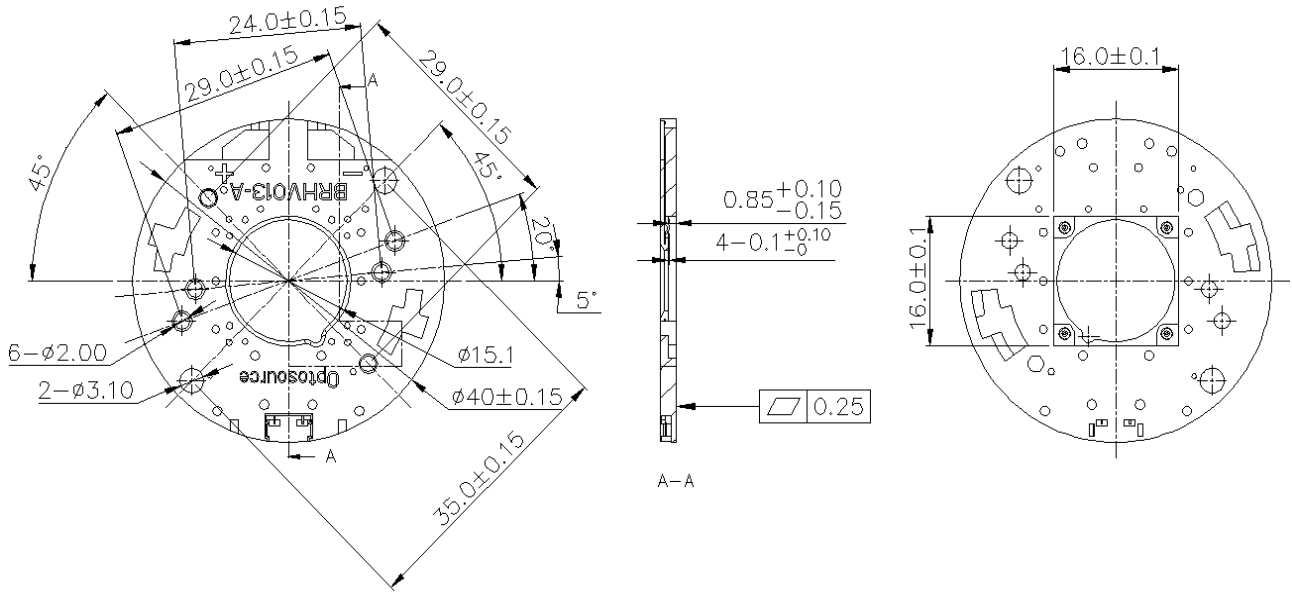
BRHV010-C



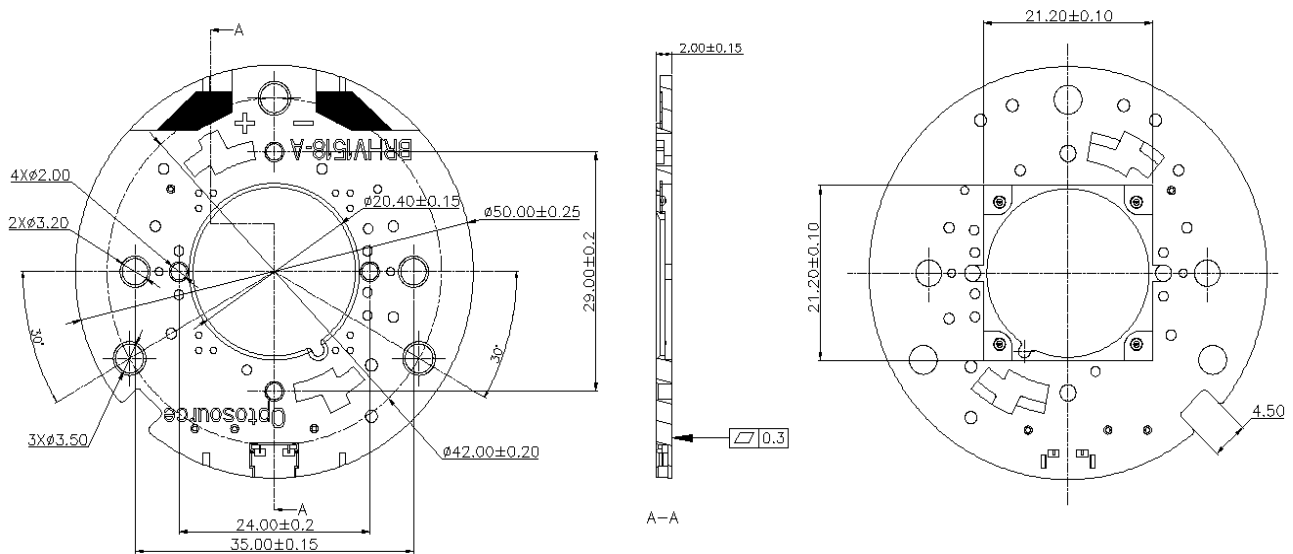
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Drawings

BRHV013-A



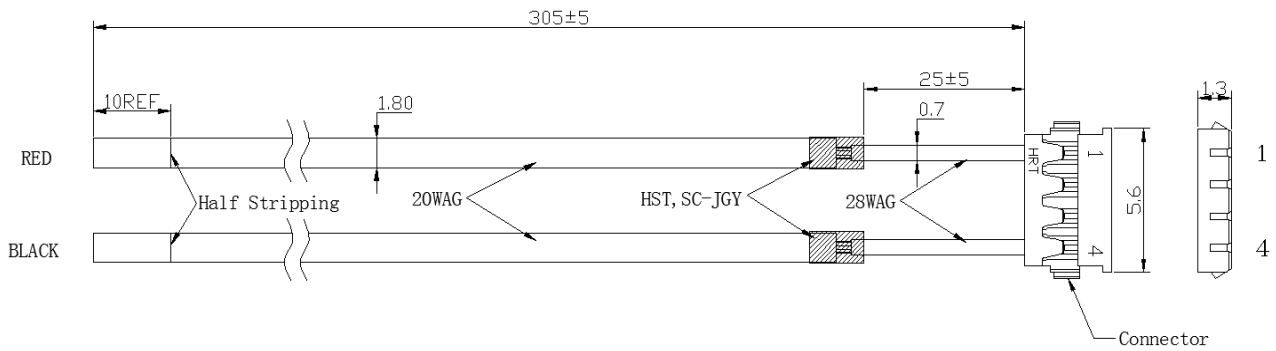
BRHV1518-A



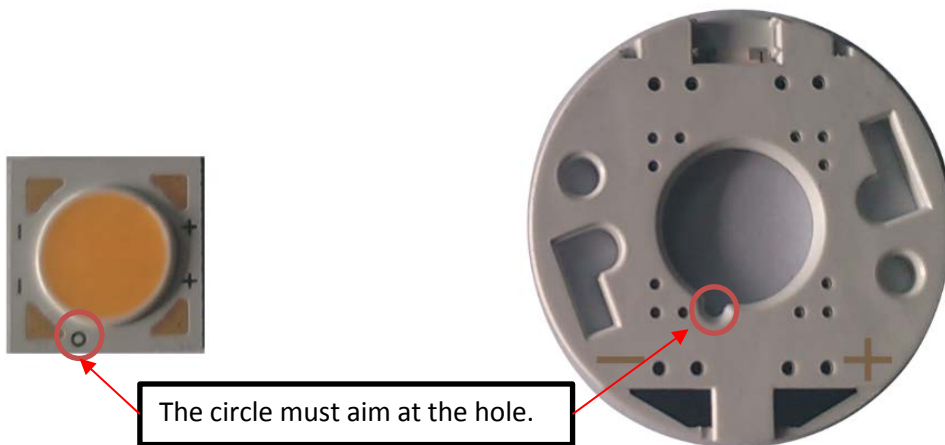
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Drawings

BRCW300-A

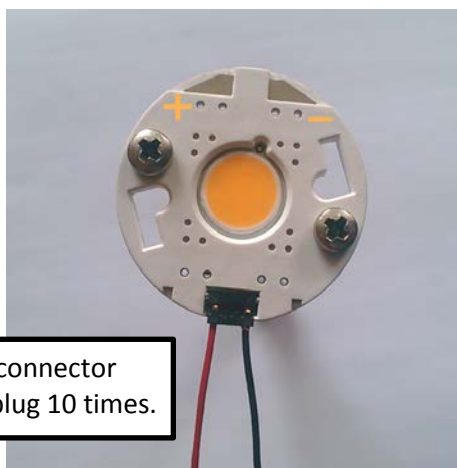


Assemble



Connector

Solder



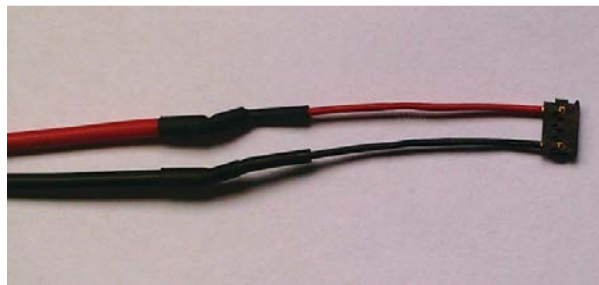
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Optosource Harness Assemblie

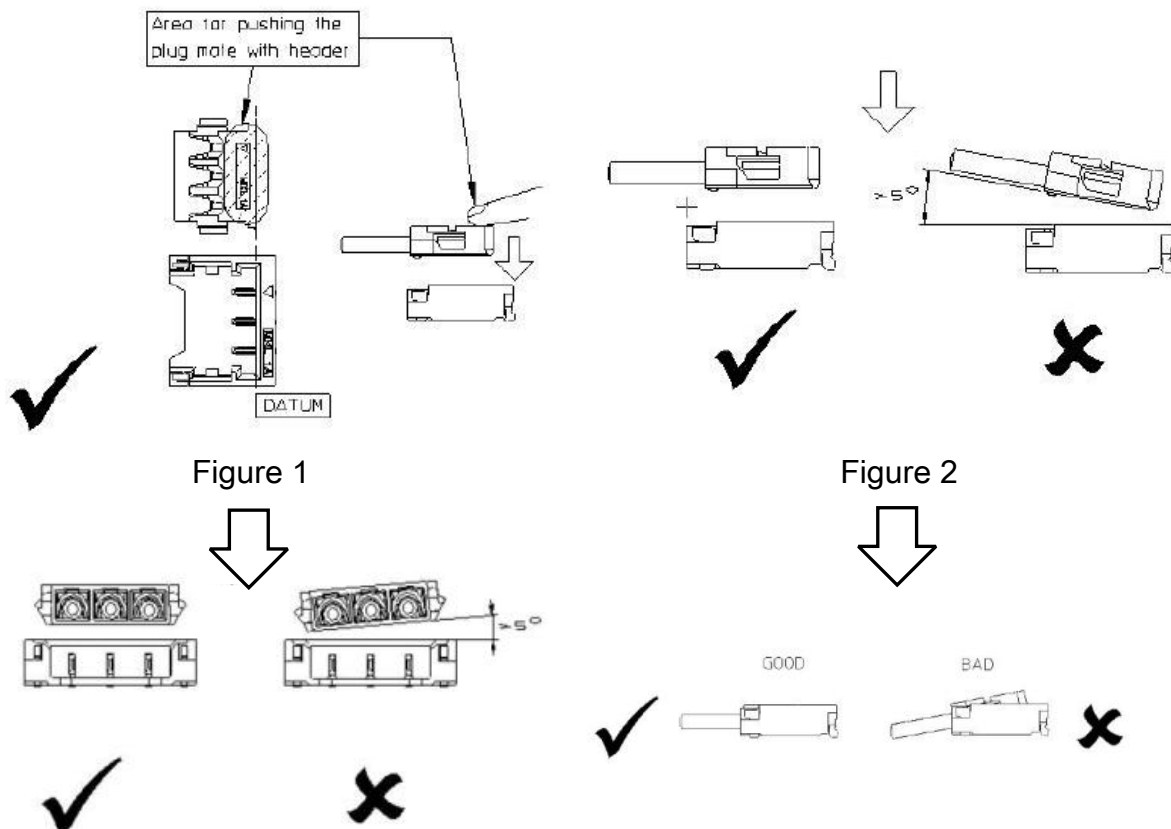
Optosource harness simplifies manufacturing by eliminating the necessary soldering process from the Lighting manufacturer's facility.



Mating connection

Align plug on top of receptacle as per photograph shown in fig.1. Pusg straight down the plug at highlight area toward the receptacle to connect.

During mating process, If incase the plug is angle mated towards the straight part of mating entrance as in fig. 2, the allowable angle must not exceeded in 5°.



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Unmating connection

Hold gently on plug wires and pull up to unmate the connector as per fig. 3 shown.

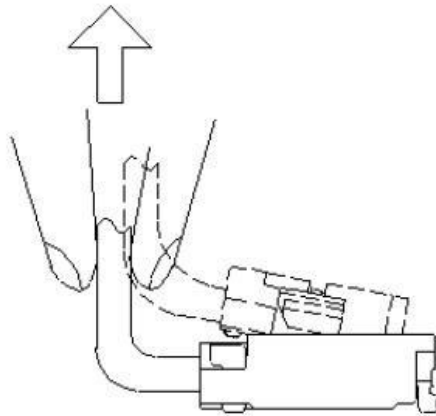


Figure 3

For unmatting process, plug wires pull and stress angle must be maintained within 15° as per fig.4 shown.

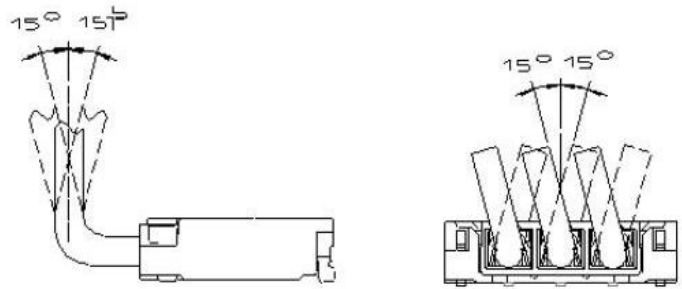


Figure 4

Connector shall not be unmated horizontally as shown in fig. 5 to prevent the damages.

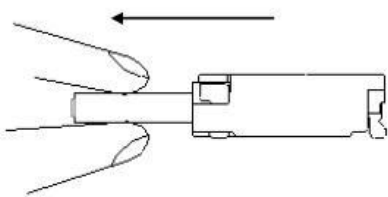


Figure 5

Make certain the areas & space where the connector placed are clear and sufficient to prevent over stress on plug wires as example shown in fig. 6.

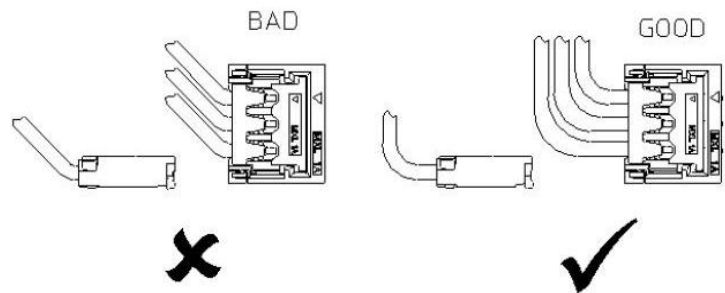
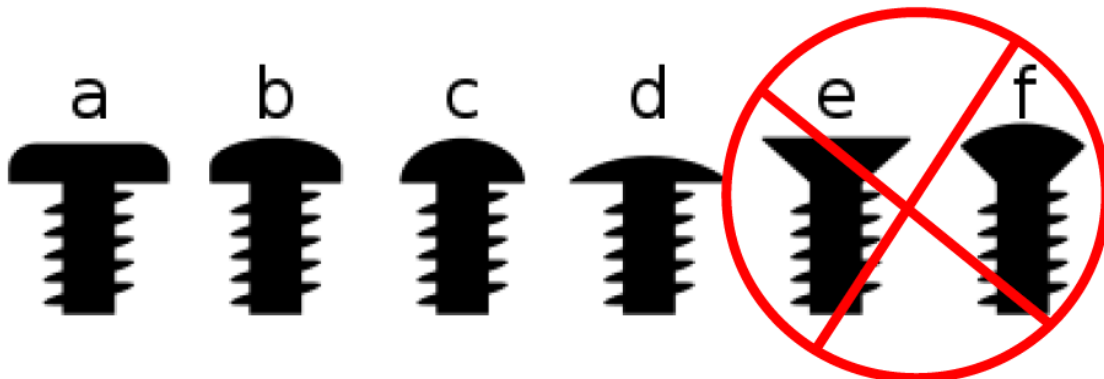


Figure 6

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Screw Head Type

We recommends using screws with a flat shoulder for mounting holder modules, see picture below. A wide variety of commercially available screws types can be used to meet design requirements. Examples include pan head, button head, round head, and truss head screws. Flat head and oval head screws or other screws with an angled surface should not be used.



When selecting a screw, consider screws that have a low profile screw head. A low profile screw head has the advantage of blocking less of the light emitted from the holder module. Additionally, if a secondary optic is to be used in the application, a low profile screw head allows more room for the optical components.