

技术规格书 + A0/Technical Specification + A0

YG1146 系列电连接器/YG1146 Series Electrical Connector

• 产品概述/Product instruction



优势/Advantages

- ✓ 防误插功能
Anti-misplug function
- ✓ 插座端为焊接式
Receptacles adopts welding type

应用场景/Application

主要应用于新能源汽车 PEU，实现信号系统连接
It is mainly applied to the PEU of new energy vehicles to realize the connection of signal systems.

• 订货信息/Ordering information

产品名称/ Product name	产品型号/ Product model	产品编号/ Product code	适配电缆(mm ²)/ Compatible cable	备注/ Remarks
插头/ Plug	YGC1146-EV-S35P	111000402785	16 ~ 20AWG 1mm ² 、 1.5mm ²	不含插孔，插孔单独采购，详见配套清单/ Excluding sockets. Sockets are purchased separately. For details, refer to the supporting parts list. 壳体颜色：黑色/ Housing color: black.
	YGC1146-EV-S35PA	111000405423	16 ~ 20AWG 1mm ² 、 1.5mm ²	不含插孔，插孔单独采购，详见配套清单/ Excluding sockets. Sockets are purchased separately. For details, refer to the supporting parts list. 壳体颜色：橙色/ Housing color: orange
插座/ Receptacle	YGC1146-EV-P35RW	111000501688	/	弯式插座/ Right-angle receptacle; 板后安装/ Rear panel mounting;

				壳体颜色: 黑色/ Housing color: black
	YGC1146-EV-P35R	111000501968	/	弯式插座/ Right-angle receptacle; 板后安装/ Rear panel mounting; 头座锁紧止方向和 YGC1146-EV-P35RW 相反/ The plug-receptacle locking direction is opposite to that of the YGC1146-EV-P35RW.
	YGC1146-EV-P35RB	111000501980	/	直式插座/ Straight receptacle; 板后安装/ Rear-panel mounting 壳体颜色: 黑色/ Housing color: black
	YGC1146-EV-P35RWC	111000502023	/	弯式插座/ Right-angle receptacle; 板后安装/ Rear panel mounting; 面板密封件唇口宽度比 YGC1146-EV-P35RW 宽 0.5mm/ The lip width of the panel seal is 0.5 mm wider than that of the YGC1146-EV-P35RW. 壳体颜色: 黑色/ Housing color: black
	YGC1146-EV-P35RWD	111000502747	/	弯式插座/ Right-angle receptacle; 板后安装/ Rear panel mounting; 壳体颜色: 橙色/ Housing color: orange

• 配料清单/Components list

订货信息(按零部件明细单独采购)/Ordering information (components to be purchased separately per parts list)

产品名称/ Product name	产品编号/ Product code	数量/ Qty	接线规格/ Wiring specification	图示(参考)/ Diagram(for reference)	备注/ Remarks
插孔/ Socket	11402010038 4	n(n≤35)	16~20AWG 1mm ² 、1.5mm ²	/	单独订购/Order Separately 配插头/Comes with Plug
YG121 堵头/ YG121 seal plug	11406980020 1	35-n	/	/	单独订购, 插头未装配孔位/ Ordered separately, the plug is not equipped with holes.

• 技术数据/Technical data

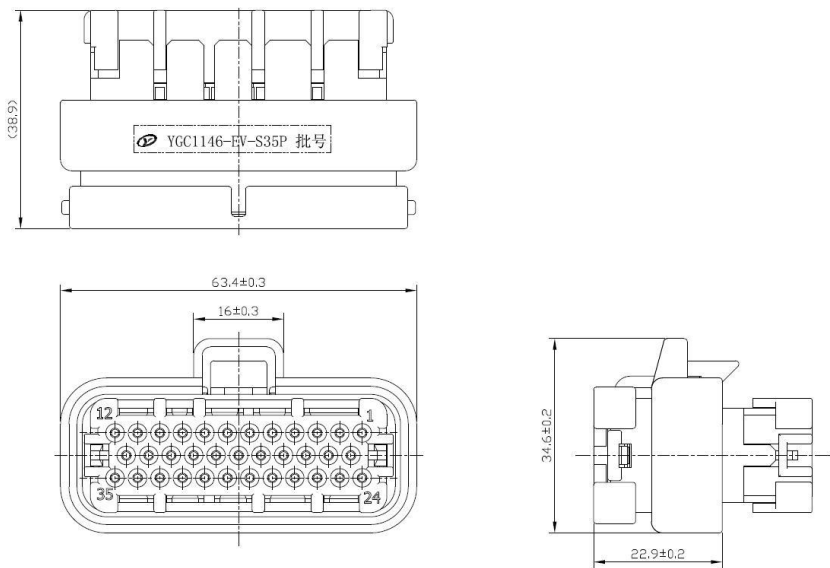
基本信息/Basic information	
芯数/Numbers of pins	35
出线方向/Cable outlet direction	180°
壳体材质/Shell material	塑料/Plastic
屏蔽功能/Shielding function	否/No
电气性能/Electrical specification	
额定电压/Rated voltage	250V
额定电流/Rated current	8A Max

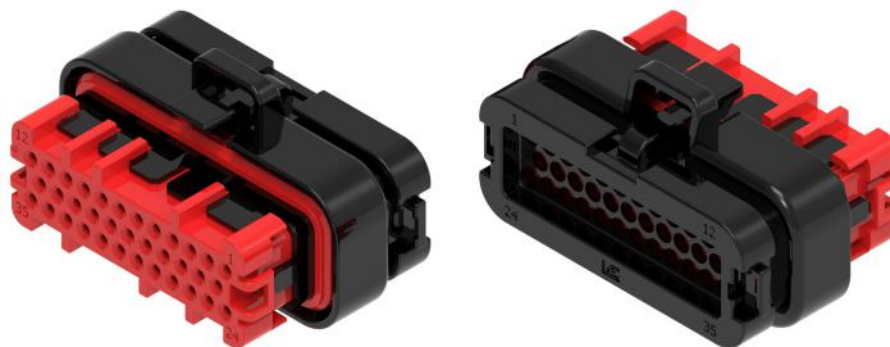
绝缘电阻/Insulation resistance	≥200MΩ (500DC 常态/normal state)
耐电压/Withstand voltage	1000 V
HVIL	否/No
机械性能/Mechanical specification	
机械寿命/Life cycle	≥50 次/Times
冲击/Shock	USCAR V2
耐环境性能/Environmental resistance specification	
工作温度/Ambient temperature	-40°C ~ +125°C
相对湿度/Humidity range	95% (40°C时) /95% (at 40°C)
盐雾/Salt spray	720h
防护等级/IP rating	IP67&IP6K9K, 插座可实现单独防水/ IP67 & IP6K9K, the receptacle can achieve independent waterproofing.
污染等级/Pollution level	2
海拔高度/Altitude	≤2000m
材料/涂覆/外观/Materials/Finish/Outline	
壳体/Shell	PA66
端子/Contacts	镀锡 (YGC1146-EV-P35RB 为镀金) / Tin-plated (YGC1146-EV-P35RB is gold-plated)
标准及认证/Standards and certifications	
阻燃等级/Flame retardant rating	UL94 V-0(塑料)、HB(橡胶)/UL94 V-0 (plastic), HB (rubber)
环保要求/Environment requirements	RoHS 2.0

• 产品尺寸图及安装开孔尺寸/Product size & mounting hole dimension

1.YGC1146-EV-S35P 插头外形

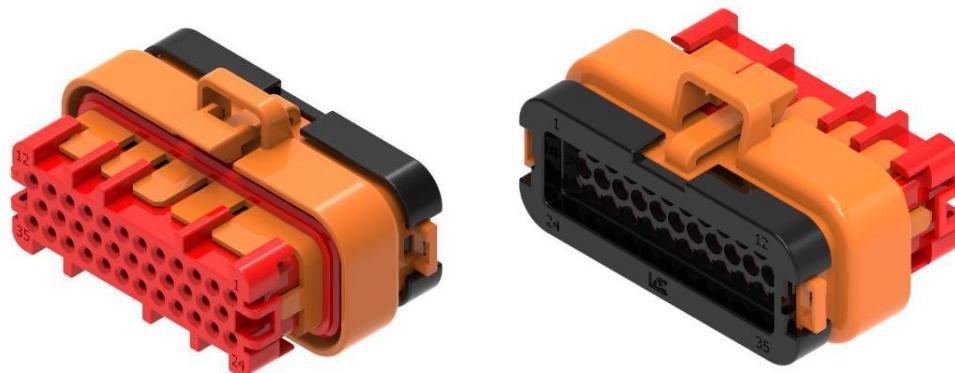
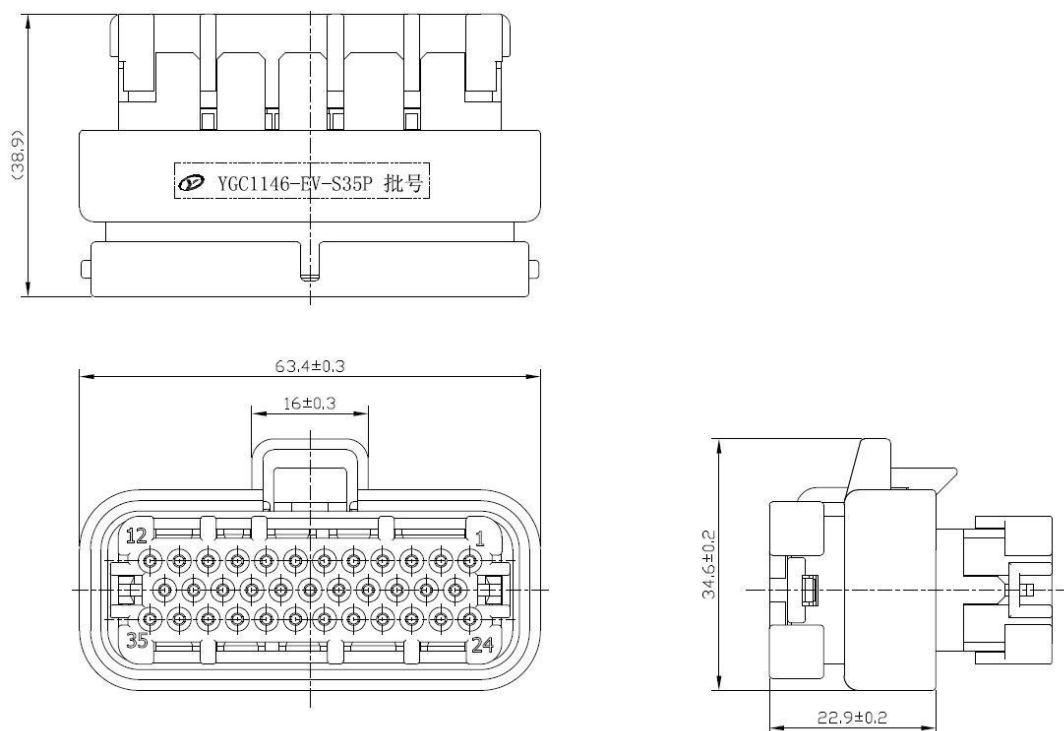
YGC1146-EV-S35P plug appearance





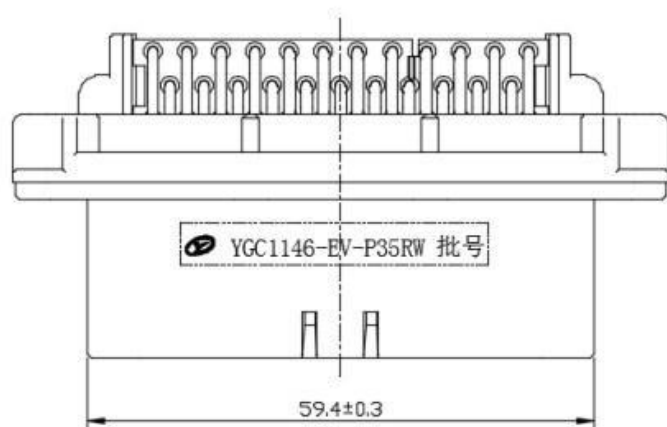
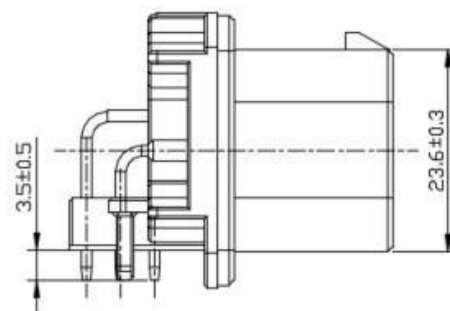
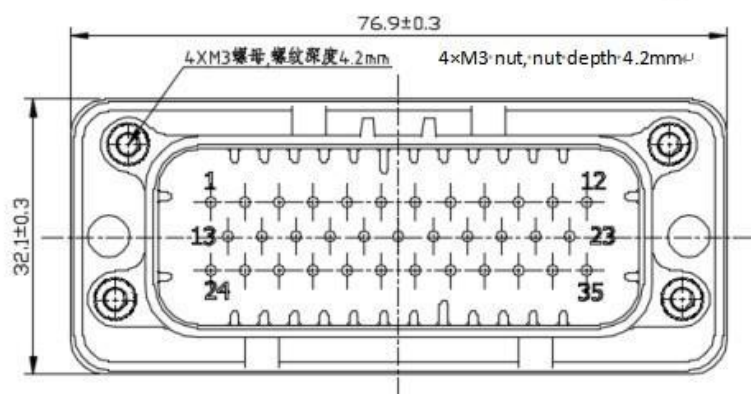
2.YGC1146-EV-S35PA 插头外形

YGC1146-EV-S35PA plug outline



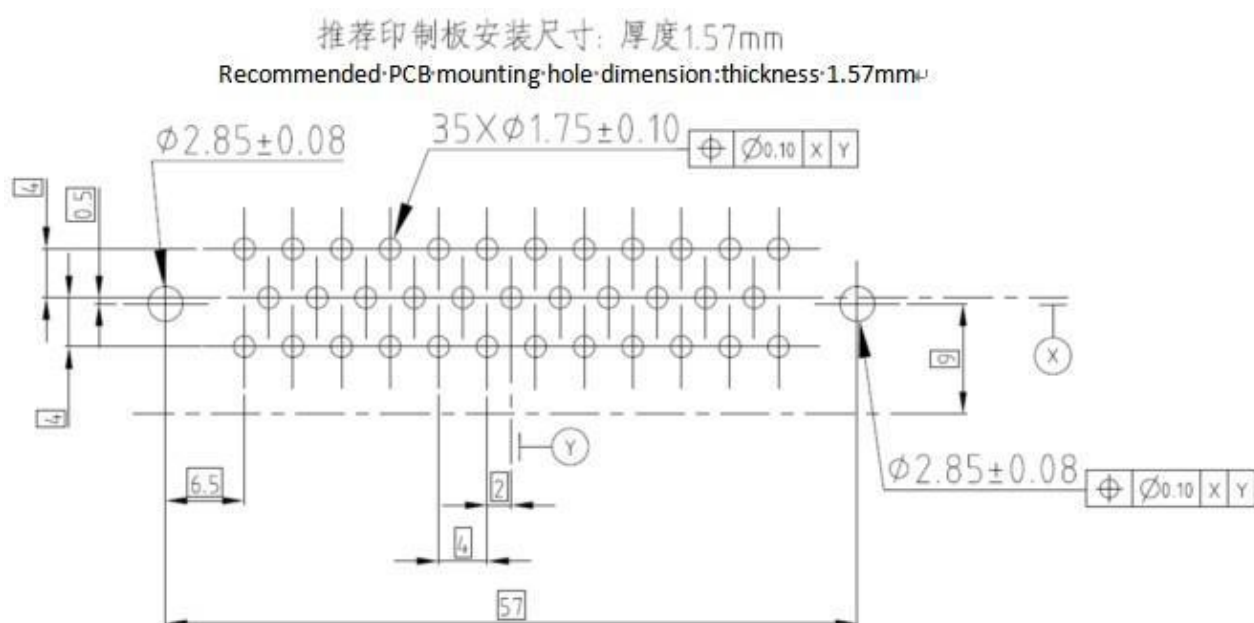
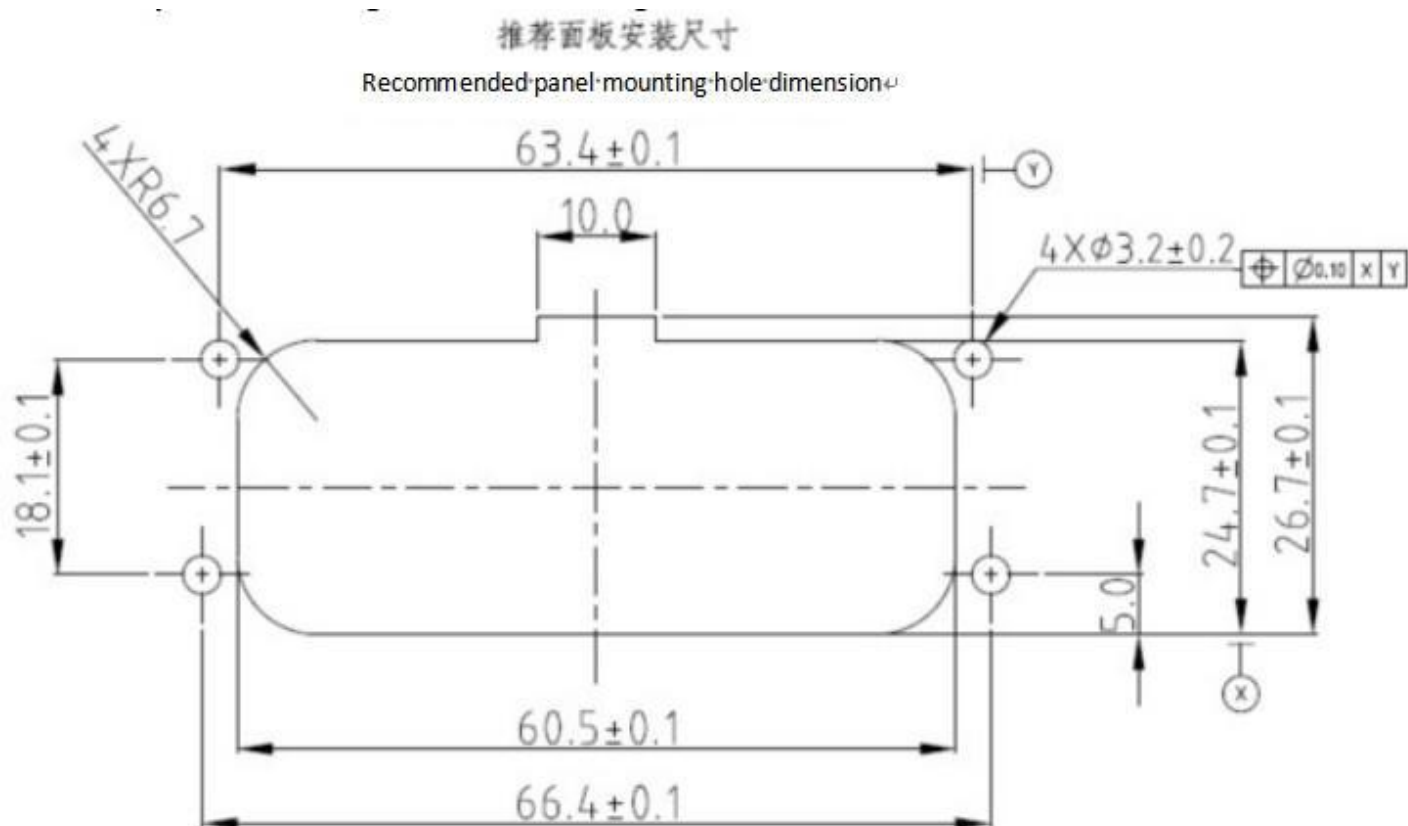
3.YGC1146-EV-P35RW 插座外形

YGC1146-EV-P35RW receptacle outline



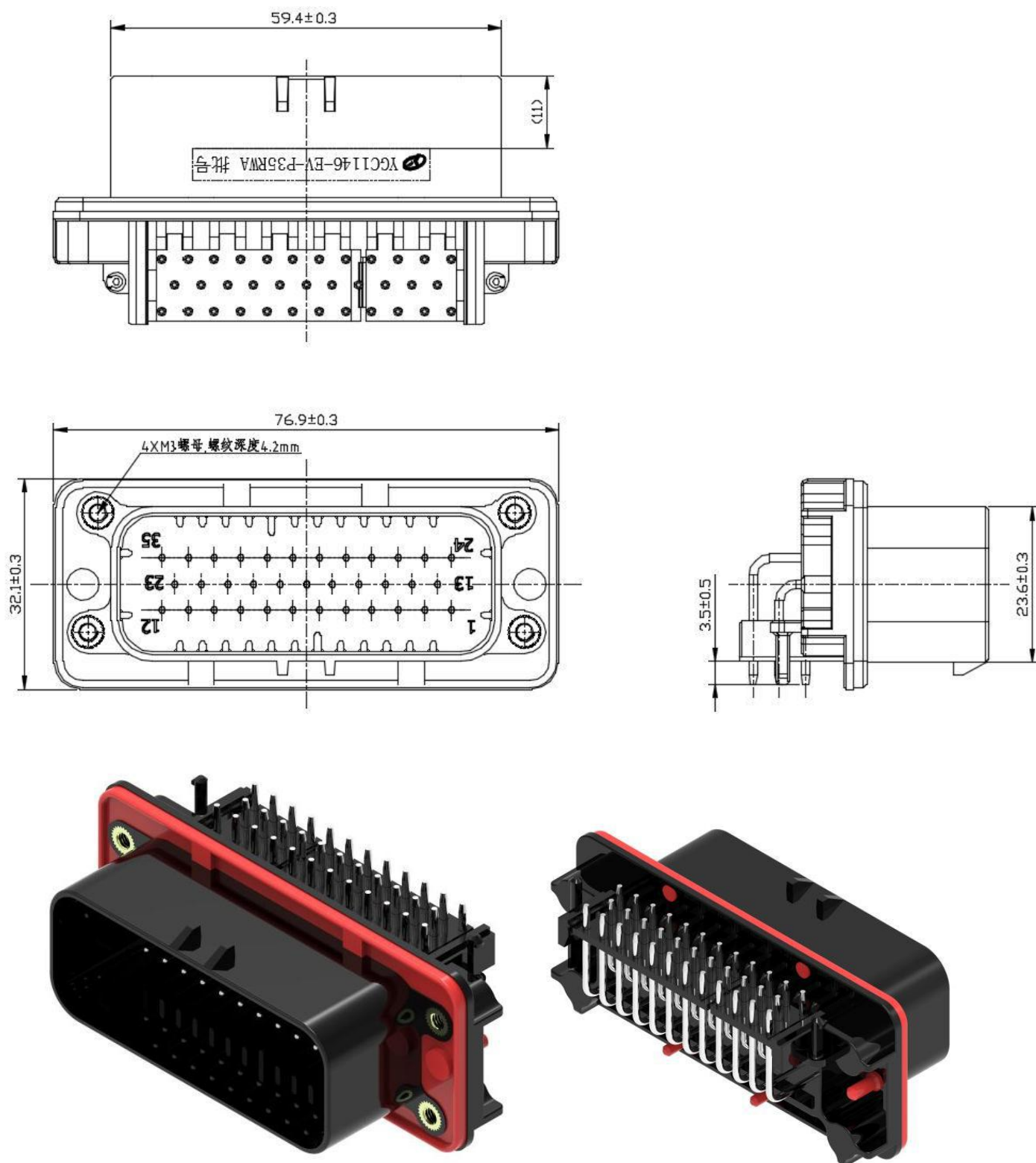
YGC1146-EV-P35RW 插座安装及印制板安装开孔尺寸

YGC1146-EV-P35RW Receptacle mounting and PCB mounting hole dimensions



4.YGC1146-EV-P35RWA 插座外形

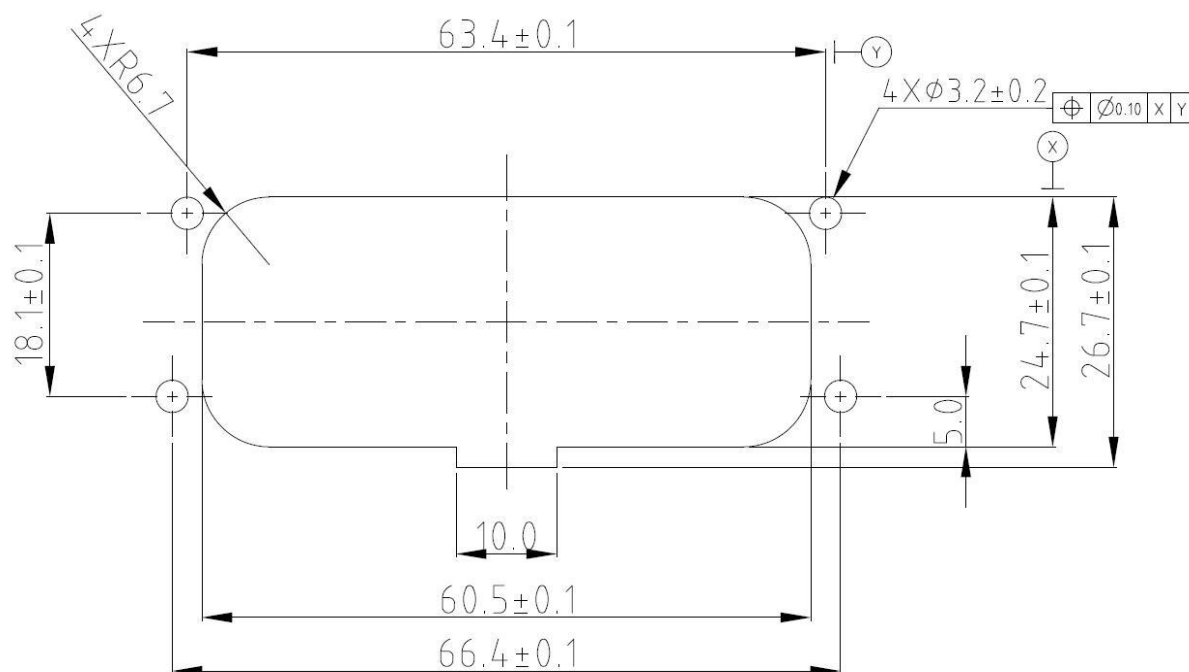
YGC1146-EV-P35RWA receptacle outline



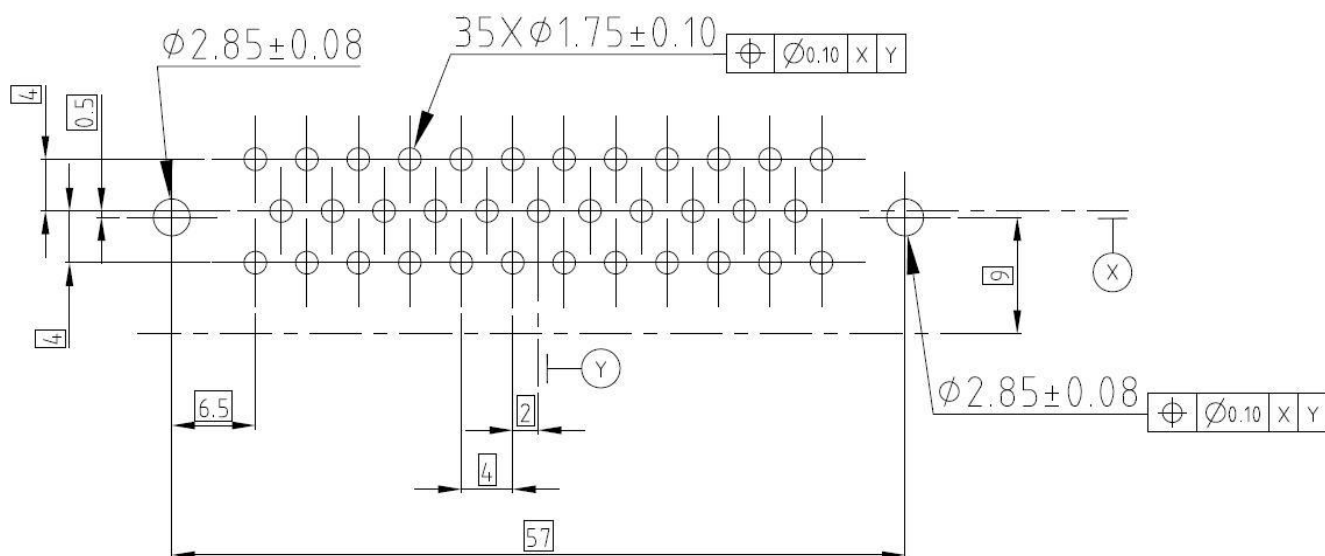
YGC1146-EV-P35RWA 插座安装及印制板安装开孔尺寸

YGC1146-EV-P35RWA Receptacle mounting and PCB mounting hole dimensions

推荐面板安装尺寸

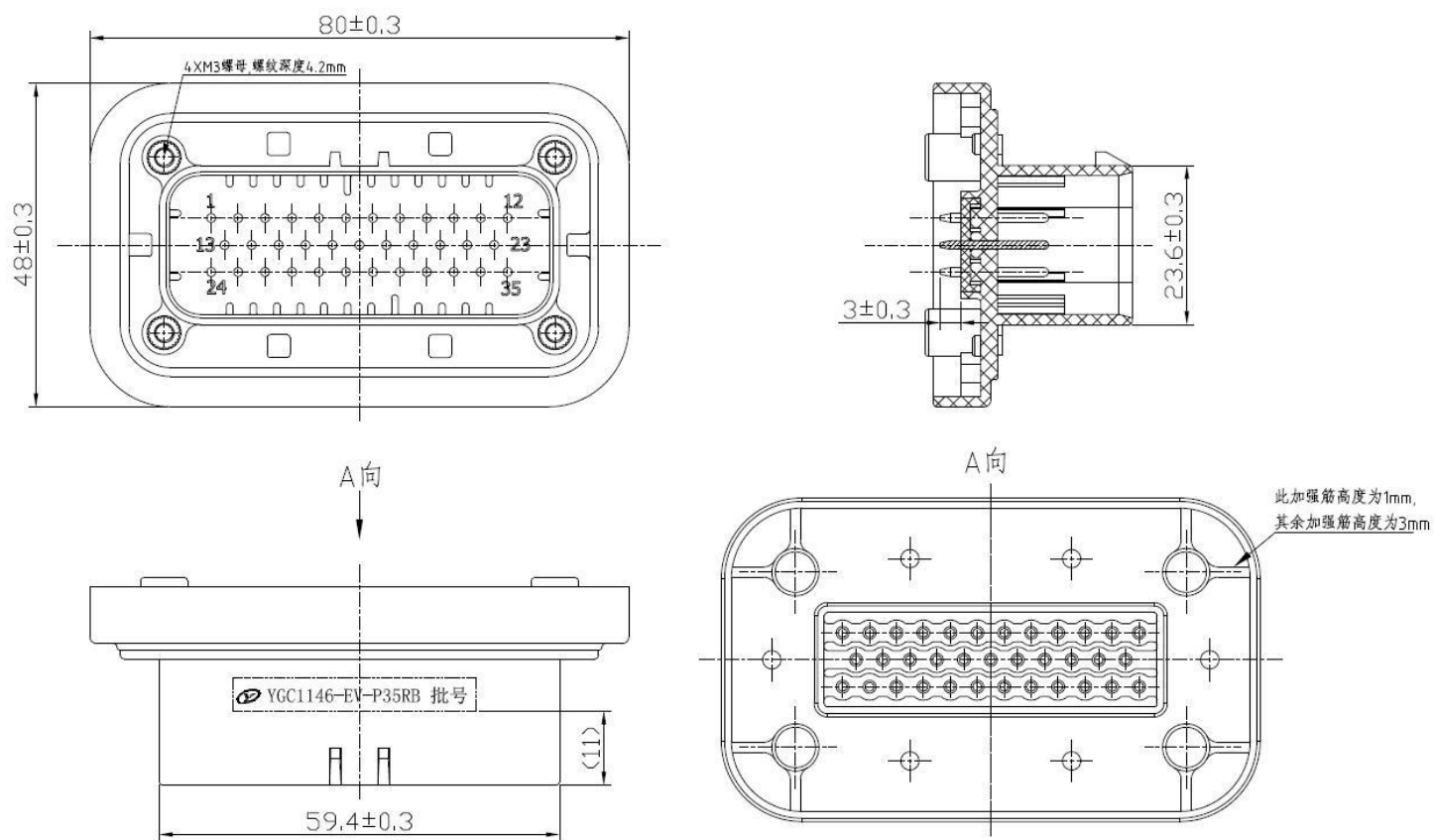


推荐印制板安装尺寸: 厚度1.57mm



5.YGC1146-EV-P35RB 插座外形

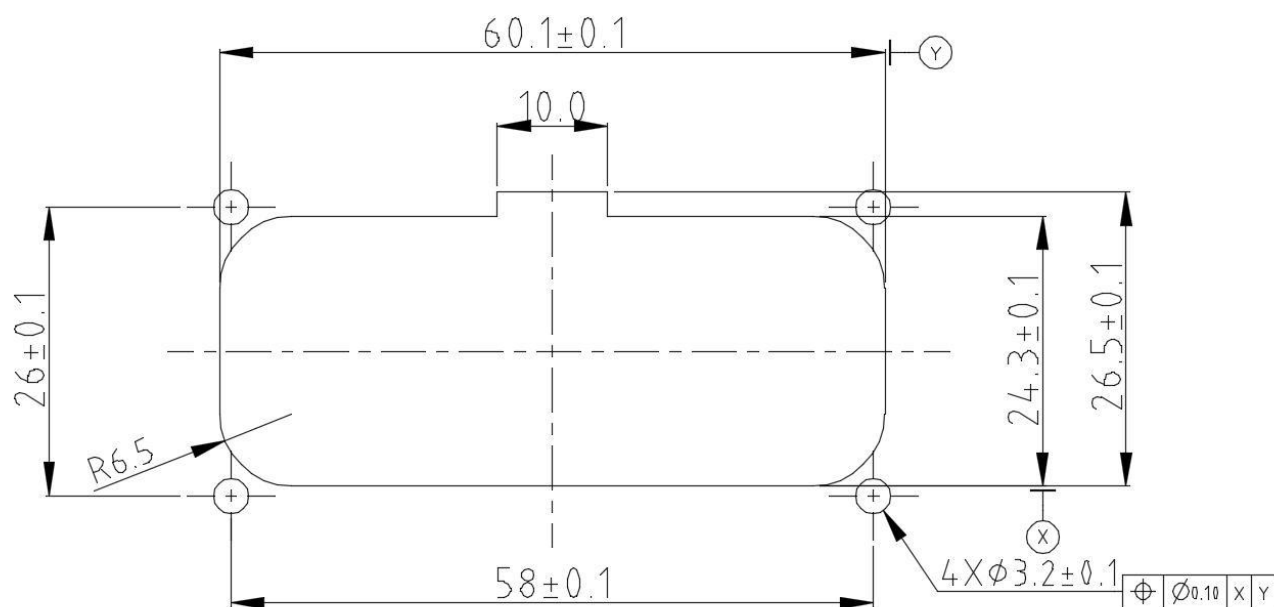
YGC1146-EV-P35RB receptacle outline



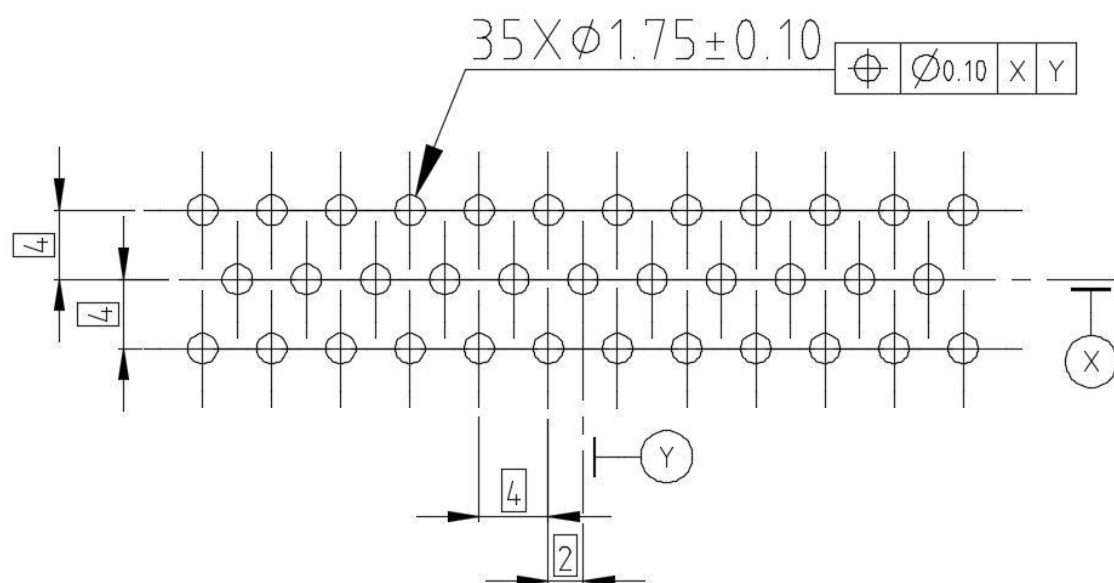
YGC1146-EV-P35RB 插座安装及印制板安装开孔尺寸

YGC1146-EV-P35RB Receptacle mounting and PCB mounting hole dimensions

推荐面板安装尺寸

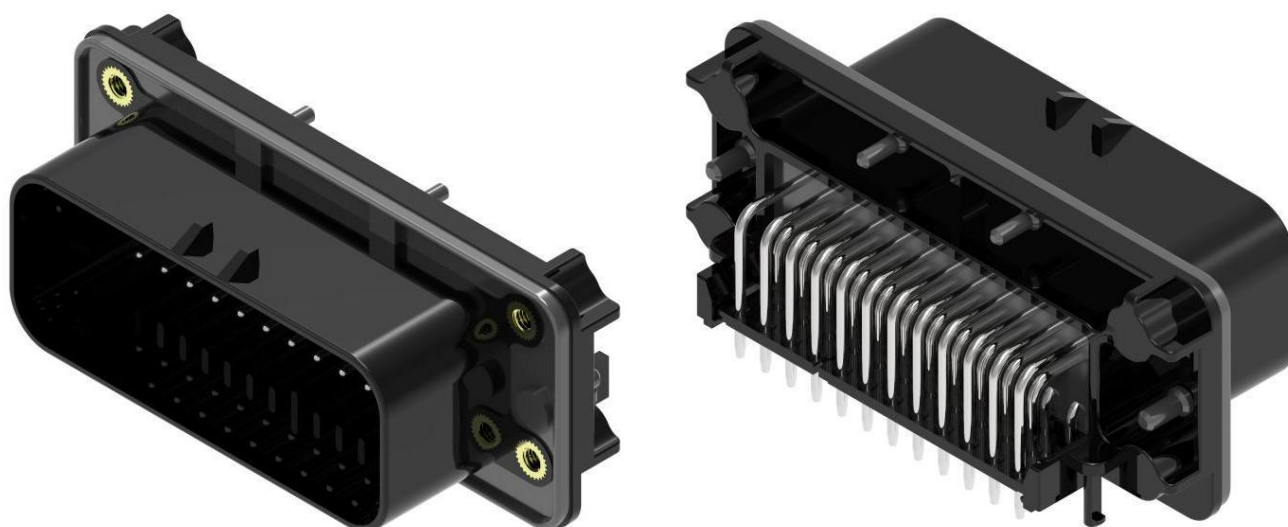
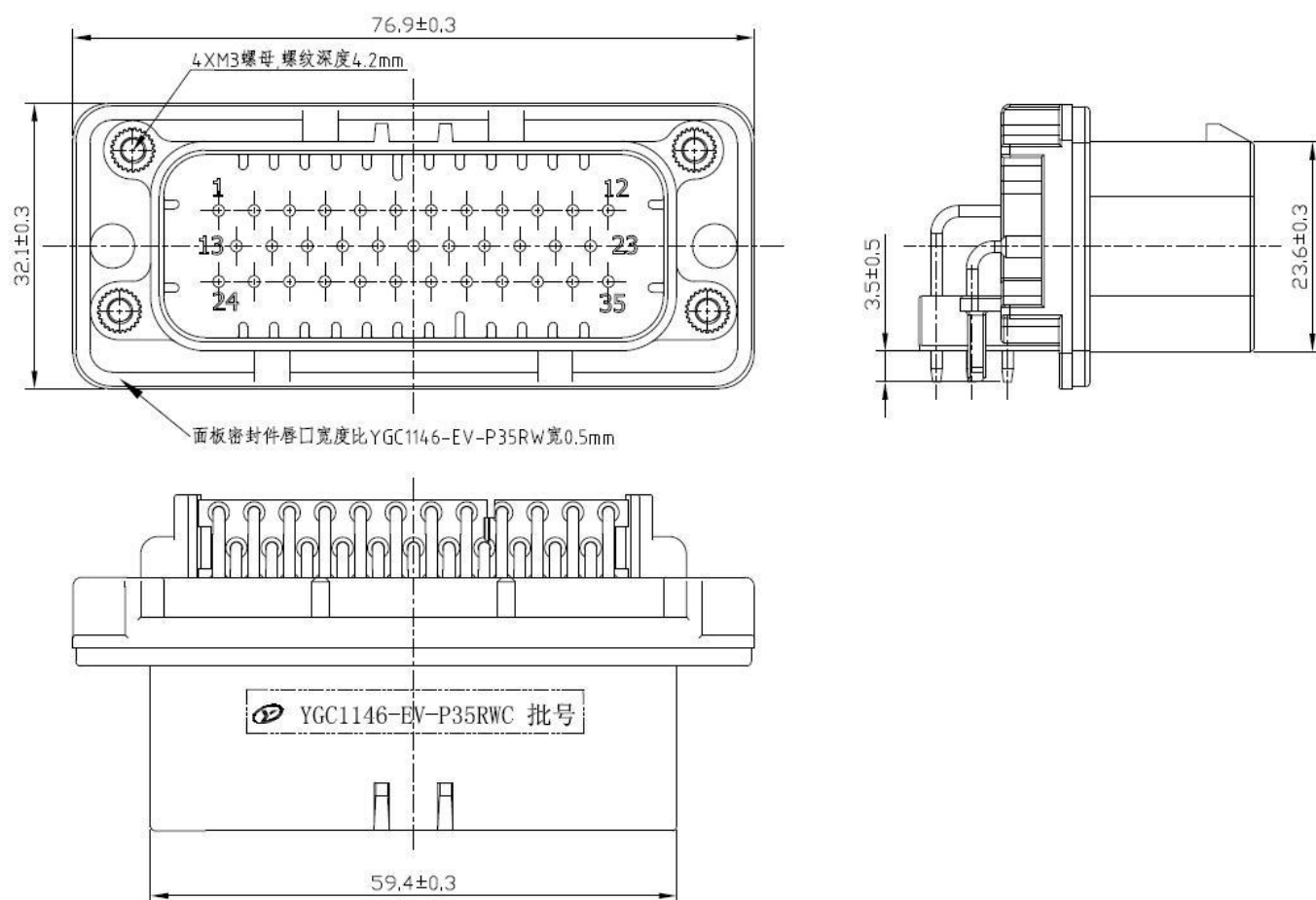


推荐印制板安装尺寸: 厚度1.6mm



6.YGC1146-EV-P35RWC 插座外形

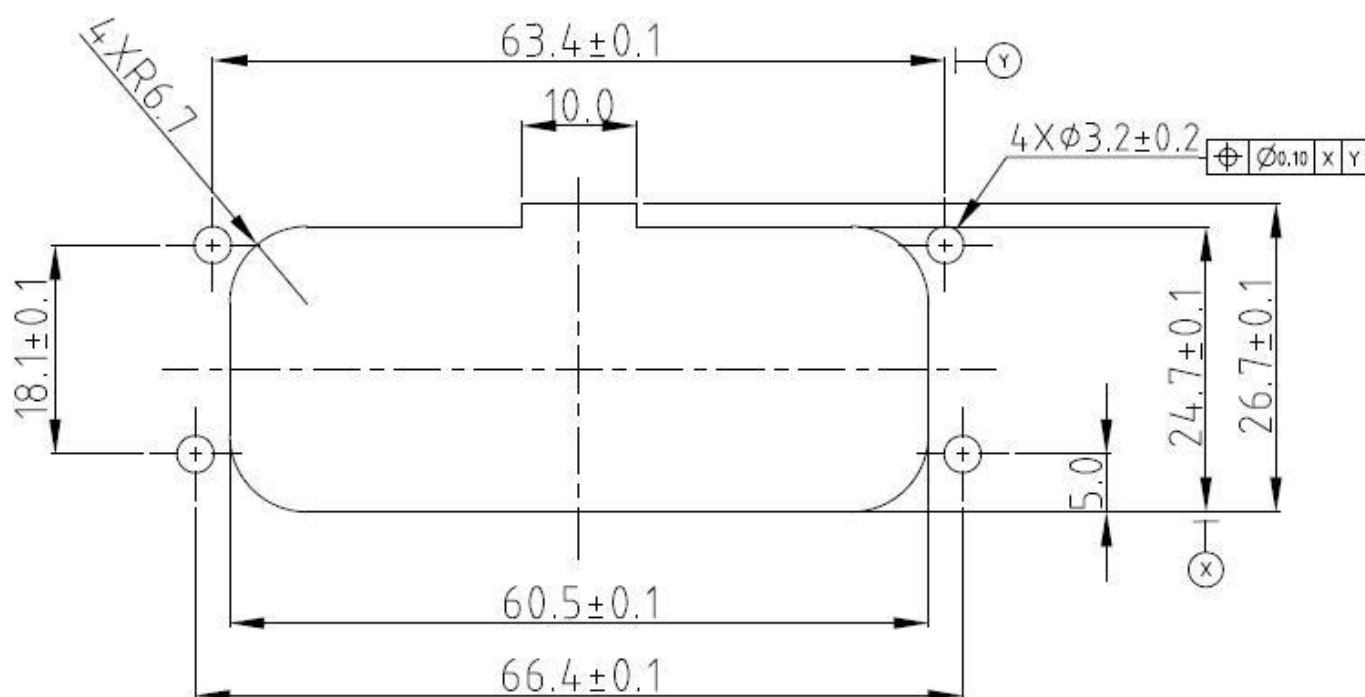
YGC1146-EV-P35RWC receptacle outline



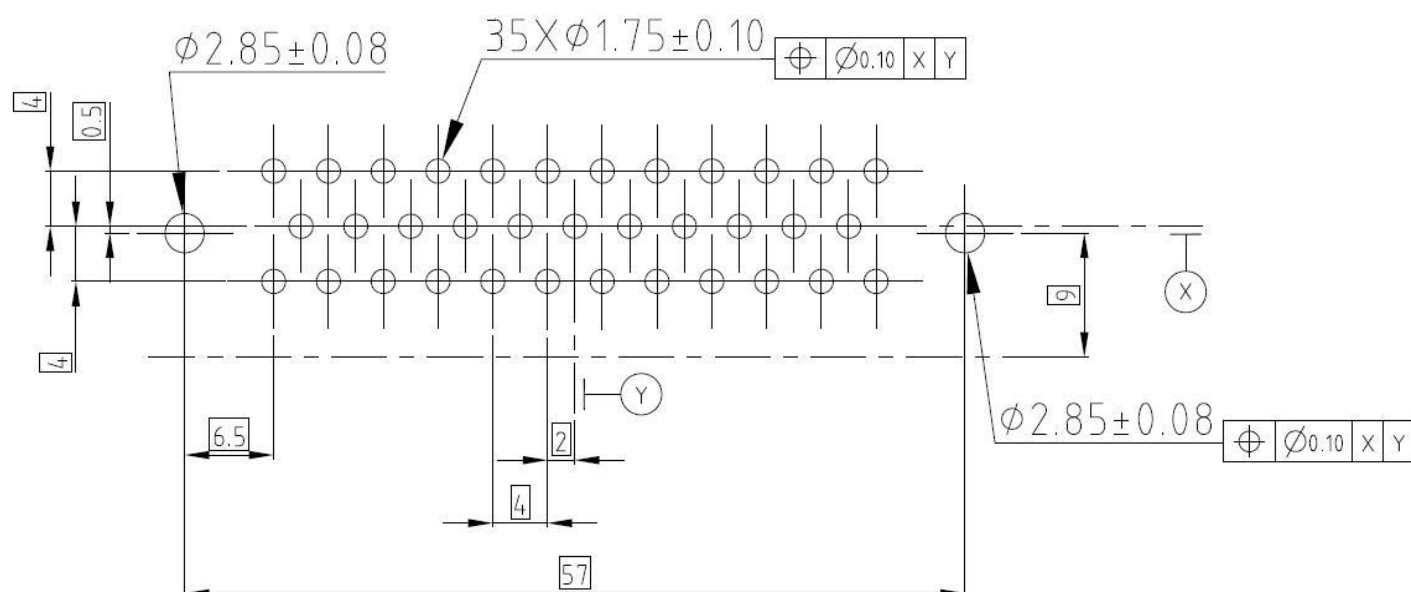
YGC1146-EV-P35RWC 插座安装及印制板安装开孔尺寸

YGC1146-EV-P35RWC Receptacle mounting and PCB mounting hole dimensions

推荐面板安装尺寸

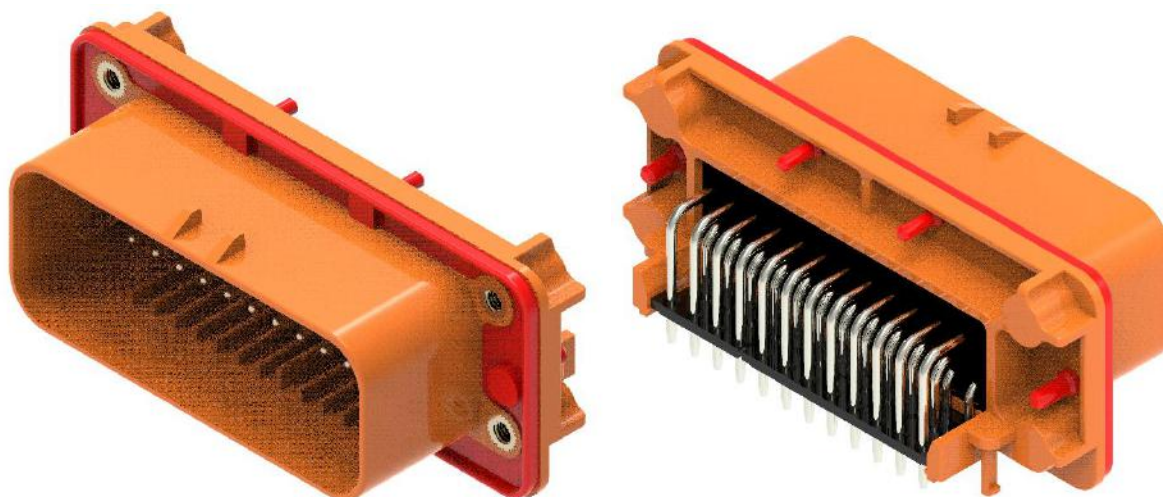
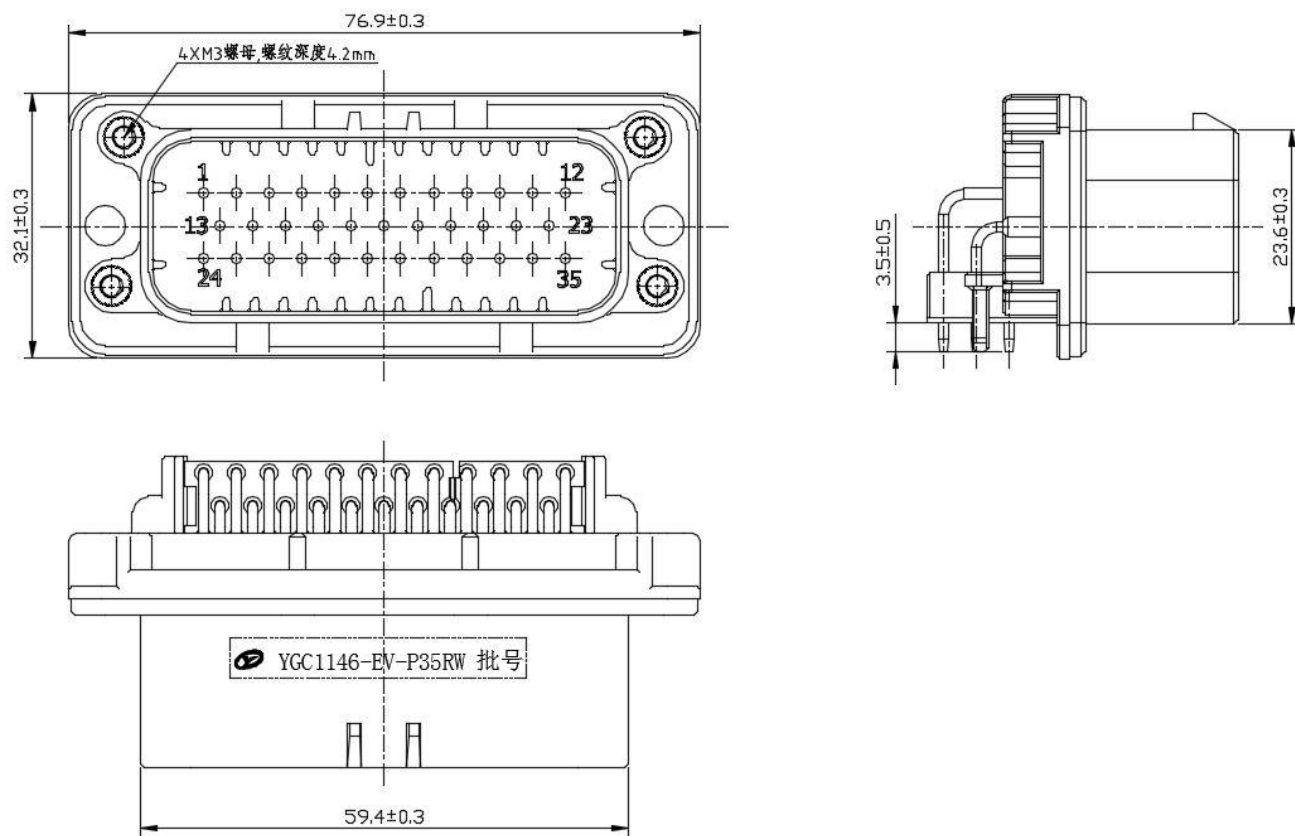


推荐印制板安装尺寸: 厚度1.57mm



7.YGC1146-EV-P35RWD 插座外形

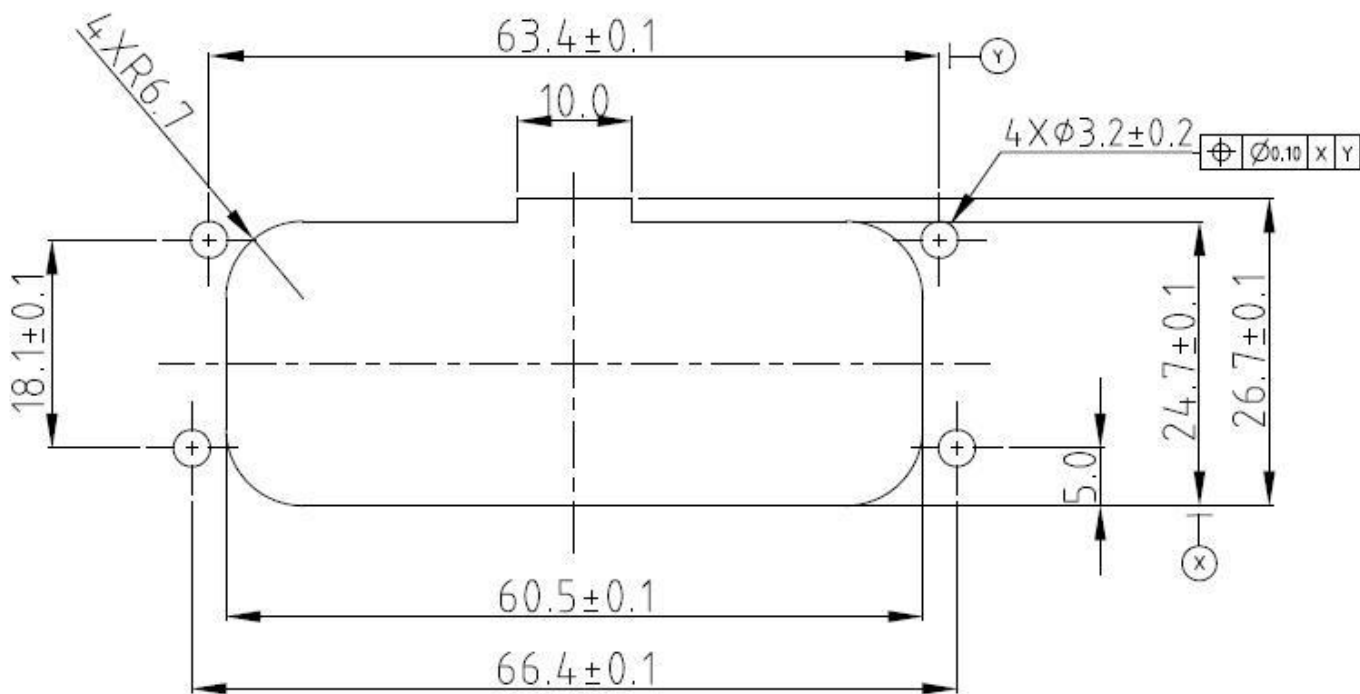
YGC1146-EV-P35RWD receptacle outline



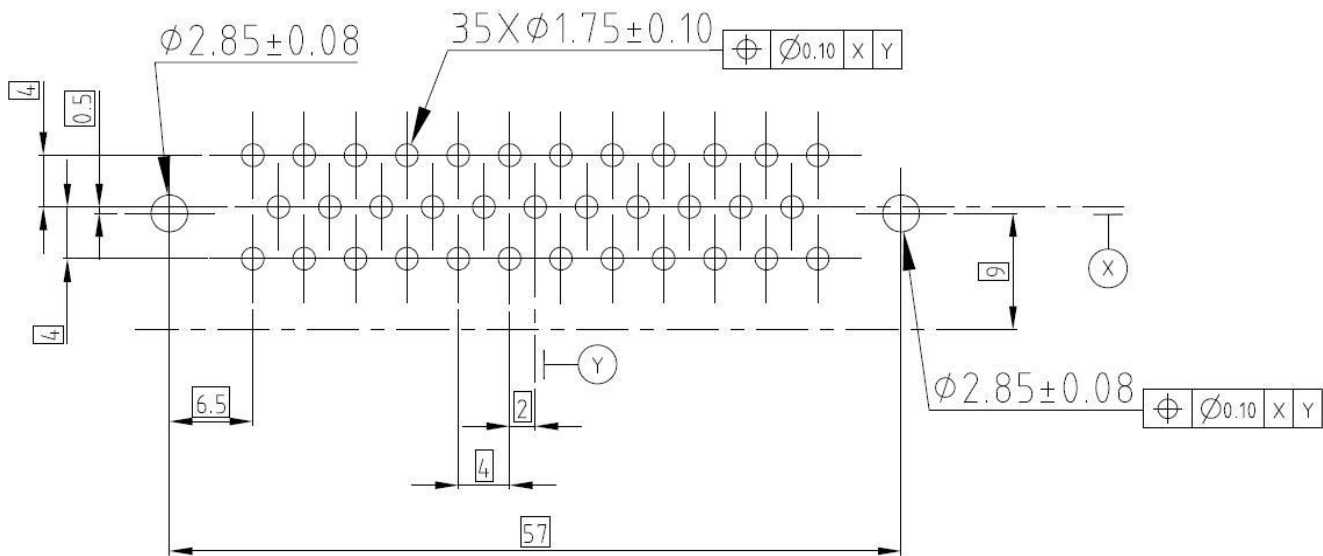
YGC1146-EV-P35RWD 插座安装及印制板安装开孔尺寸

YGC1146-EV-P35RWD Receptacle mounting and PCB mounting hole dimensions

推荐面板安装尺寸



推荐印制板安装尺寸: 厚度1.57mm



• 储存/Storage

包装储存&转运说明/Storage& transportation	
存放要求/ Storage requirement	接触件（镀金、镀银）类零部件必须单独保存，保持整洁、干净、通风。存储环境应控制在湿度$\leq 60\%$、温度在$5\sim 30^{\circ}\text{C}$。参考保存期 6 个月。 Components with contact elements (gold-plated, silver-plated) must be stored separately, kept clean, tidy and in a well-ventilated environment. The storage environment shall be controlled with a humidity of $\leq 60\%$ and a temperature ranging from 5°C to 30°C. The reference storage period is 6 months.
运输要求/ Transportation requirement	端子在包装、运输、转运和生产、装配过程中应避免碰撞、接触腐蚀性气体和液体、以及手直接接触等，以保证端子接触表面良好。 During packaging, transportation, transfer, production, and assembly processes, terminals shall be protected from collisions, contact with corrosive gases and liquids, and direct hand contact, so as to ensure the good condition of the terminal contact surfaces.