

技术规格书A2/Technical Specification A2

YGEV5-2pin系列连接器/YGEV5-2pin Series Connector

• 产品概述/Product instruction

 应用场景/Application 电动汽车MCU、电池包、高压盒等的电气连接。 Electrical connections for EV, MCU, battery packs, high-voltage boxes, etc.	优势/Advantages ✓ 360度全屏蔽 360-Degree full shielding ✓ 二次互锁及解锁; Secondary interlock and unlocking ✓ 对插和安装防呆; Mating and mounting mistake proof ✓ 把手锁紧; Handle locking ✓ 插头端子超声波焊接。 Ultrasonic welding of plug terminals
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• 订货信息/Ordering information

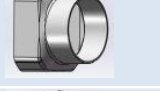
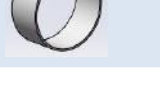
订货信息/Ordering information				
键位/ Key position	A			
插头名称/ Plug name	YGEV5-P2PWHA插头 (70mm ²) YGEV5-P2PWHA plug (70mm ²)	YGEV5-P2PWHA插头 (50mm ²) YGEV5-P2PWHA plug (50mm ²)	YGEV5-P2PHA插头 (70mm ²) YGEV5-P2PHA plug (70mm ²)	YGEV5-P2PHA插头 (50mm ²) YGEV5-P2PHA plug (50mm ²)
插头编码/ Plug code	111000405969	111000405970	111000405968	111000405940
插座名称/ Receptacle name	YGEV5-S2RA插座 YGEV5-S2RA receptacle	YGEV5-S2RA1插座 YGEV5-S2RA1 receptacle	YGEV5-S2RA2插座 YGEV5-S2RA2 receptacle	YGEV5-S2RA3插座 YGEV5-S2RA3 receptacle
插座编码/ Receptacle code	111000502952	111000502926	111000503005	111000503596
键位/ Key position	B			
插头名称/ Plug name	YGEV5-P2PWHB插头 (50mm ²) YGEV5-P2PWHB plug (50mm ²)	YGEV5-P2PHB1插头 (70mm ²) YGEV5-P2PHB 1- plug (70mm ²)		
插头编码/ Plug code	111000406884	111000407526		

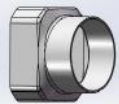
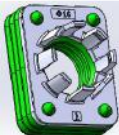
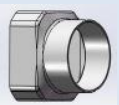
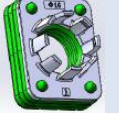
插座名称/ Receptacle name	YGEV5-S2RB插座/ YGEV5-S2RB receptacle	YGEV5-S2RB4插座 YGEV5-S2RB4 receptacle		
插座编码/ Receptacle code	111000502927	111000503609		

注：产品名称末位字母代表防呆键位，头座型号的末位字母一致即可对插，插座名称末尾数字代表不同的铜排形式扩型，不影响对插。

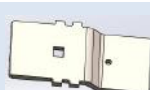
Note: The last letter of the product name indicates the mistake-proofing key position; the plug and receptacle models can be mated as long as their last letters are consistent. The last digit of the receptacle name represents different copper bar form expansions, which does not affect the mating.

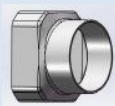
• 物料清单/Bill of materials

订货信息(总成)/ Ordering information (Assembly)		订货信息(零部件明细, 可单独采购)/ Order information (component details, available for separate purchase)				
		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)
YGEV5-P2PWHA 插头(70mm²)/ YGEV5-P2PWHA plug (70mm²)	111000405969	YGEV5-P2PWHA插头组件 YGEV5-P2PWHA plug assembly	112010106426	1	70mm²(LV216) Φ17.8±0.4 mm	
		20.4×2NA001-070S针端子 20.4×2NA001-070S pin terminals	114020101327	2		
		YGEV5屏蔽件-内-70 YGEV5 shielding component - inner - 70	114029801926	2		
		YGEV5屏蔽件-外-70 YGEV5 shielding component - external - 70	114029801927	2		
		Φ18.5×2垫片 Φ18.5×2 Washer	114019801819	2		
		线夹组件R9.25 Wire clamp assembly R9.25	113990001736	2		
		Φ18.5尾盖-1-70 Φ18.5 rear cover-1-70	114060103506	2		
YGEV5-P2PWHA 插头(50mm²)/ YGEV5-P2PWHA plug (50mm²)	111000405970	YGEV5-P2PWHA插头组件 YGEV5-P2PWHA plug assembly	112010106426	1	50mm²(LV216) Φ15.5±0.3mm	
		20.4×2NA001-070S针端子 20.4×2NA001-070S pin terminals	114020101327	2		
		YG196-459屏蔽环A-50 YG196-459 shielding ring A -50	114022600601	2		

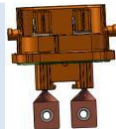
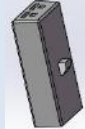
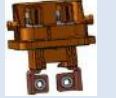
		YGEV5屏蔽件-外-50 YGEV5 shielding - external - 50	114022600452	2		
		Φ16×2垫片 Φ16×2 washer	114019801832	2		
		线夹组件R8 Wire clamp assembly R8	113990001737	2		
		Φ16.1尾盖-1-50 Φ16.1 rear cover -1-50	114060103541	2		
YGEV5-P2PWHB 插头(50mm²)/ YGEV5-P2PWHB plug (50mm²)	111000406884	YGEV5-P2PWHB插头组件 YGEV5-P2PWHB plug assembly	112010107091	1	50mm²(LV216) Φ15.5±0.3mm	
		20.4×2NA001-070S针端子 20.4×2NA001-070S pin terminals	114020101327	2		
		YG196-459屏蔽环A-50 YG196-459 shielding ring A -50	114022600601	2		
		YGEV5屏蔽件-外-50 YGEV5 shielding - external - 50	114022600452	2		
		Φ16×2垫片 Φ16×2 washer	114019801832	2		
		线夹组件R8 Wire clamp assembly R8	113990001737	2		
		Φ16.1尾盖-1-50 Φ16.1 rear cover -1-50	114060103541	2		

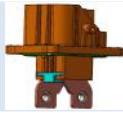
订货信息(总成)/ Ordering information (Assembly)		订货信息(零部件明细, 可单独采购)/ Order information (component details, available for separate purchase)				
		产品名称/ Product name	产品编号/ Product code	数量/ Qty	接线规格/ Wiring specification	图示(参考)/ Diagram (for reference)
YGEV5-P2PHA插 头(70mm²)/ YGEV5-P2PHA plug (70mm²)	111000405968	YGEV5-P2PHA插头组件 YGEV5-P2PHA plug assembly	112010106427	1	70mm²(LV216) Φ17.8±0.4 mm	
		20.4×2NA002-070S针端子 20.4×2NA002-070S pin terminals	114020101376	2		

		YGEV5屏蔽件-内-70 YGEV5 shielding - inner - 70	114029801926	2		
		YGEV5直式屏蔽件-外-70 YGEV5 straight shielding - external - 70	114022600489	2		
		Φ18.5×2垫片 Φ18.5×2 washer	114019801819	2		
		线夹组件R9.25 Wire clamp assembly R9.25	113990001736	2		
		Φ18.5尾盖-1-70 Φ18.5 rear cover-1-70	114060103506	2		
YGEV5-P2PHA插头(50mm²)/ YGEV5-P2PHA plug(50mm²)	111000405940	YGEV5-P2PHA插头组件 YGEV5-P2PHA plug assembly	112010106427	1	50mm²(LV216) Φ15.5±0.3mm	
		20.4×2NA002-070S针端子 20.4×2NA002-070S pin terminals	114020101376	2		
		YG196-459屏蔽环A-50 YG196-459 shielding ring A -50	114022600601	2		
		YGEV5直式屏蔽件-外-50 YGEV5 straight shielding - external - 50	114022600490	2		
		Φ16×2垫片 Φ16×2 washer	114019801832	2		
		线夹组件R8 Wire clamp assembly R8	113990001737	2		
		Φ16.1尾盖-1-50 Φ16.1 rear cover -1-50	114060103541	2		
YGEV5-P2PHB1插头(70mm²)/ YGEV5-P2PHB1plug(70mm²)	111000407526	YGEV5-P2PHB1插头组件 YGEV5-P2PH B1 plug assembly	112010107470	1	70mm²(LV216) Φ17.8±0.4 mm	
		20.4×2NA002-070S针端子 20.4×2NA002-070S pin terminals	114020101376	2		
		YGEV5屏蔽件-内-70 YGEV5 shielding component - internal - 70	114029801926	2		

		YGEV5直式屏蔽件-外-70 YGEV5 straight shielding - external - 70	114022600489	2		
		Φ18.5×2垫片 Φ18.5×2 washer	114019801819	2		
		线夹组件R9.25 Wire clamp assembly R9.25	113990001736	2		
		Φ18.5尾盖-1-70 Φ18.5 rear cover -1-70	114060103506	2		

订货信息(总成)/ Ordering information (Assembly)		订货信息(零部件明细, 可单独采购)/ Order information (component details, available for separate purchase)				
		产品名称/ Product name	产品编号/ Product code	数量	接线规格/ Wiring specification	图示(参考)/ Diagram (for reference)
YGEV5-S2RA插座 YGEV5-S2RA receptacle	111000502952	YGEV5-S2RA插座组件 YGEV5-S2RA receptacle assembly	112020107180	1	铜排, 带M6螺母 Copper bar with M6 nut	
		YGEV5-2 针绝缘体 YGEV5-2 pin insulator	114060103508	1		
		YGEV5-2-0.5封线体 YGEV5-2-0.5 cable seal	114050501887	1		
		YGEV5挡块 YGEV5 baffle	114069805676	1		
		82-0.63×0.63-H25~H35T插针 82-0.63×0.63-H25~H35T pin	110010401011	2	Φ1.3±0.2mm (0.35mm ²)	
YGEV5-S2RA1插座 YGEV5-S2RA1 receptacle	111000502926	YGEV5-S2RA1插座组件 YGEV5-S2RA1 receptacle assembly	112020107252	1	铜排, 带M6螺母 Copper bar with M6 nut	
		YGEV5-2 针绝缘体 YGEV5-2 pin insulator	114060103508	1		
		YGEV5-2-0.5封线体 YGEV5-2-0.5 cable seal	114050501887	1		
		YGEV5挡块A YGEV5 baffle A	114069805964	1		

		82-0.63×0.63-H25~H35T插 针 82-0.63×0.63-H25~H35T pin	110010401011	2	Φ1.3±0.2mm (0.35mm ²)	
YGEV5-S2RA2 插座 YGEV5-S2RA2 receptacle	111000503005	YGEV5-S2RA2插座组件 YGEV5-S2RA2 receptacle assembly	112020107384	1	铜排, 带M6螺 母 Copper bar with M6 nut	
		YGEV5-2 针绝缘体 YGEV5-2 pin insulator	114060103508	1		
		YGEV5-2-0.5封线体 YGEV5-2-0.5 cable seal	114050501887	1		
		YGEV5挡块 YGEV5 baffle	114069805676	1		
		82-0.63×0.63-H25~H35T插 针 82-0.63×0.63-H25~H35T pin	110010401011	2	Φ1.3±0.2mm (0.35mm ²)	
YGEV5-S2RA3 插座 YGEV5-S2RA3 receptacle	111000503596	YGEV5-S2RA3插座组件 YGEV5-S2RA3 receptacle assembly	112020107856	1	铜排, 带M6螺 母 Copper bar with M6 nut	
		YGEV5-2 针绝缘体 YGEV5-2 pin insulator	114060103508	1		
		YGEV5-2-0.5封线体 YGEV5-2-0.5 cable seal	114050501887	1		
		YGEV5挡块B YGEV5 baffle B	114069806608	1		
		82-0.63×0.63-H25~H35T插 针	110010401011	2	Φ1.3±0.2mm (0.35mm ²)	
YGEV5-S2RB插座 YGEV5-S2RB receptacle	111000502927	YGEV5-S2RB插座组件 YGEV5-S2RB receptacle assembly	112020107253	1	铜排, 带M6螺 母 Copper bar with M6 nut	
		YGEV5-2 针绝缘体 YGEV5-2 pin insulator	114060103508	1		
		YGEV5-2-0.5封线体 YGEV5-2-0.5 cable seal	114050501887	1		
		YGEV5挡块A YGEV5 baffle A	114069805964	1		
		82-0.63×0.63-H25~H35T插 针 82-0.63×0.63-H25~H35T pin	110010401011	2	Φ1.3±0.2mm (0.35mm ²)	

YGEV5-S2RB4插座 YGEV5-S2RB4 receptacle	111000503609	YGEV5-S2RB4插座组件 YGEV5-S2R4 receptacle assembly	112020107869	1	铜排, 带M6螺母 Copper bar with M6 nut	
		YGEV5-2 针绝缘体 YGEV5-2 pin insulator	114060103508	1		
		YGEV5-2-0.5封线体 YGEV5-2-0.5 cable seal	114050501887	1		
		YGEV5挡块B YGEV5 baffle B	114069806608	1		
		82-0.63×0.63-H25~H35T插针 82-0.63×0.63-H25~H35T pin	110010401011	2	Φ1.3±0.2mm (0.35mm ²)	

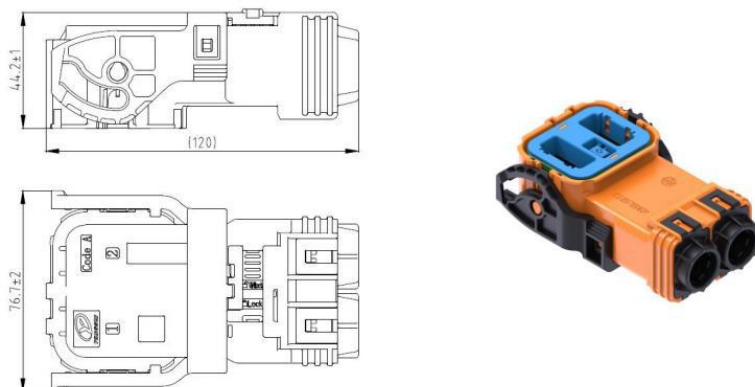
• 技术数据/Technical data

基本信息/Basic information	
PIN距/Pin pitch	26.4mm
芯数/Numbers of cores	2cores
出线方向/Cable outlet direction	90°/180°
壳体材质/Shell	塑料/plastic
屏蔽功能/Shielding function	是/yes
电气性能/Electrical specification	
额定电压/Rated voltage	1000V DC
额定电流/Rated current	200A(50mm ²)、300A(70mm ²)
绝缘电阻/Insulation resistance	≥100MΩ
耐电压/Withstand voltage	3000 V(功率/power), 1000 V(信号/signal)(50Hz AC 常态/normal)
HVIL	是/yes
机械性能/Mechanical specification	
振动/Vibration	USCAR V2
冲击/Shock	USCAR V2
耐环境性能/Environmental resistance specification	
工作温度/Operating temperature	-40°C ~ +125°C
相对湿度/Humidity range	95%(40°C时/at40°C)
盐雾/Salt spray	96h
防护等级/IP rating	IP67,IP6K9K
污染等级/Pollution level	2
海拔要求/Altitude requirements	≤4000m
材料/涂覆/外观/Materials/Finish/Outline	
壳体/Shell	PA66
屏蔽/Shielding	铜合金/Copper alloy
标准及认证/Standards and certifications	
阻燃等级/Flame retardant rating	UL94 V-0(塑料/plastic)、HB(橡胶/rubber)
环保要求/Environmental requirements	RoHS 2.0

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

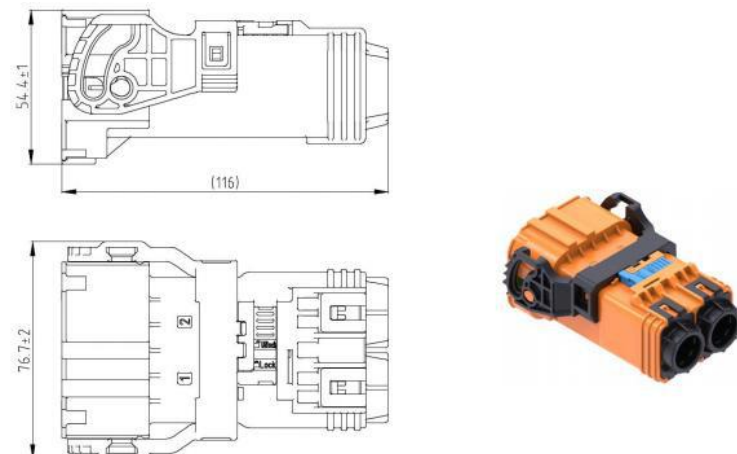
YGEV5-P2PWH系列插头总成外形

YGEV5-P2PWH series plug assembly outline



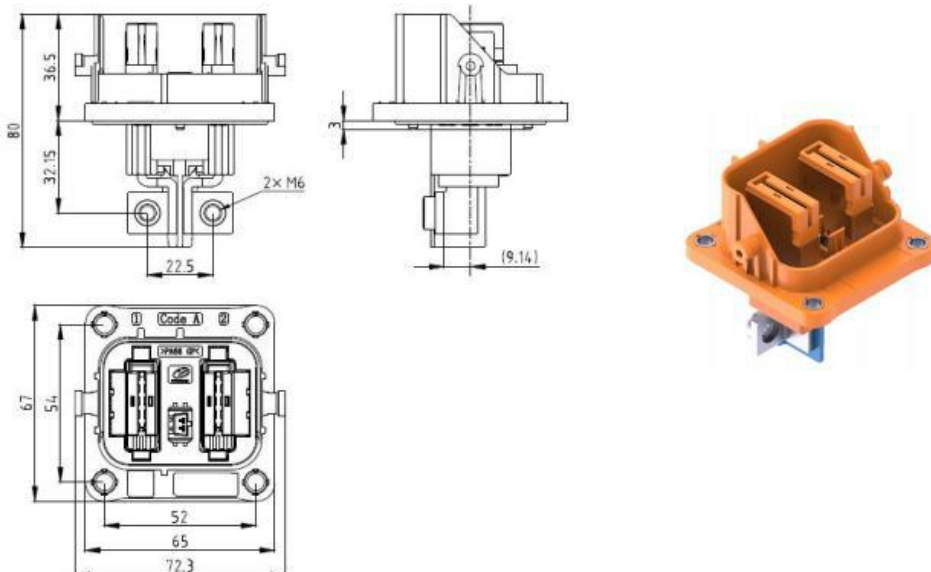
YGEV5-P2PH系列插头总成外形(未注公差: ± 0.5)

YGEV5-P2PH series plug assembly outline (unspecified tolerance: ± 0.5)



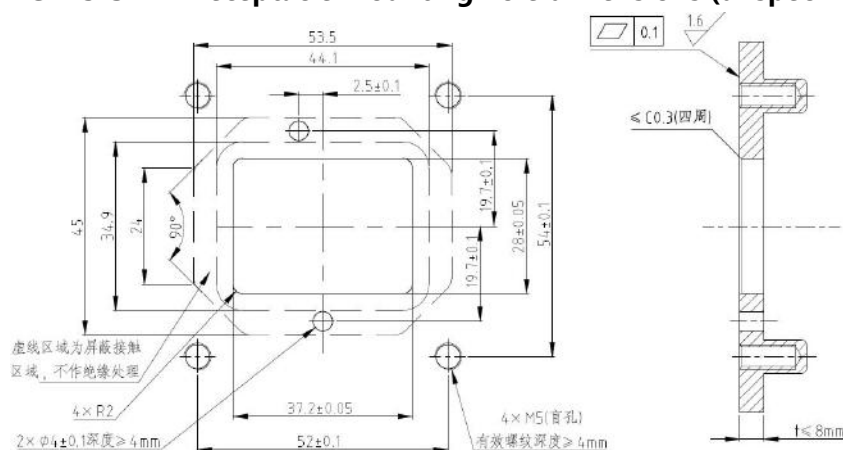
YGEV5-S2RA插座总成外形(未注公差: ± 0.5)

YGEV5-S2RA Receptacle assembly outline (unspecified tolerance: ± 0.5)



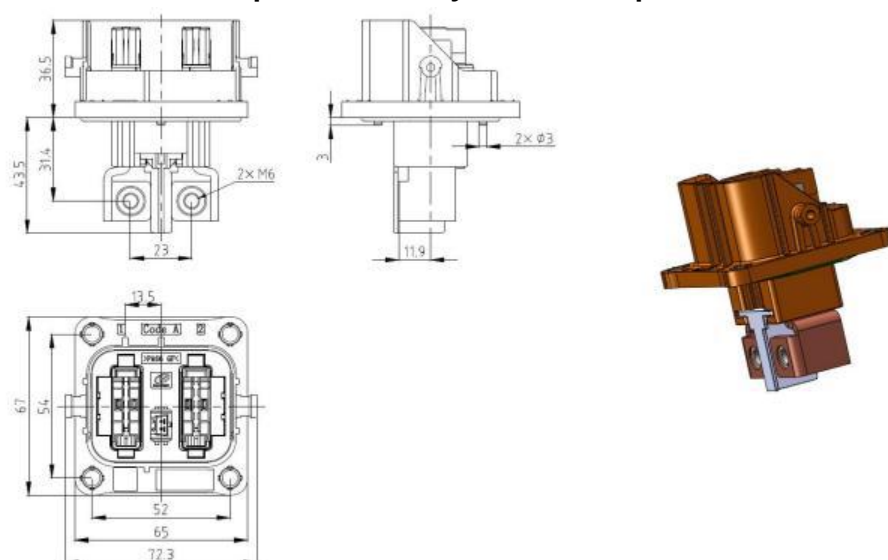
YGEV5-S2RA插座安装开孔尺寸(未注公差: ± 0.1)

YGEV5-S2RA Receptacle mounting hole dimensions (unspecified tolerance: ± 0.1)



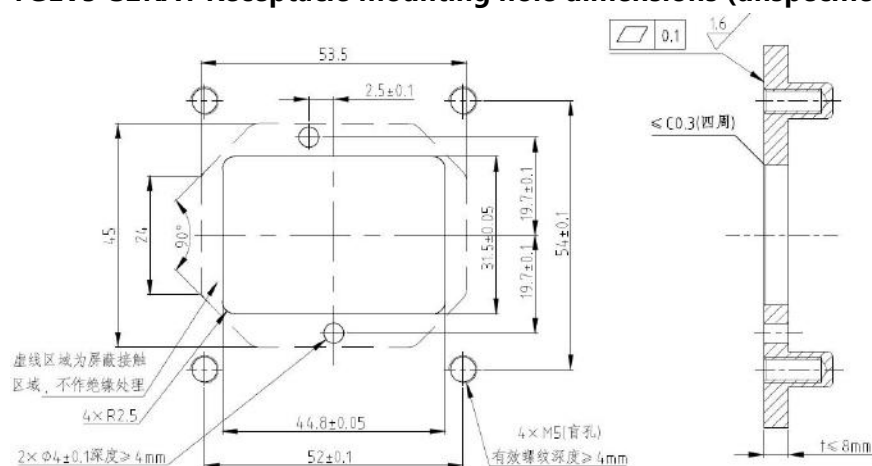
YGEV5-S2RA1插座总成外形(未注公差: ± 0.5)

YGEV5-S2RA1 Receptacle assembly outline (unspecified tolerance: ± 0.5)



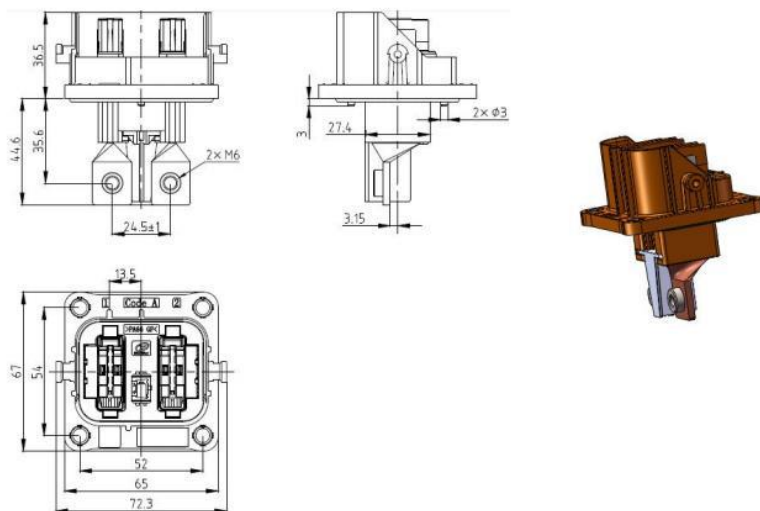
YGEV5-S2RA1插座安装开孔尺寸(未注公差: ± 0.1)

YGEV5-S2RA1 Receptacle mounting hole dimensions (unspecified tolerance: ± 0.1)



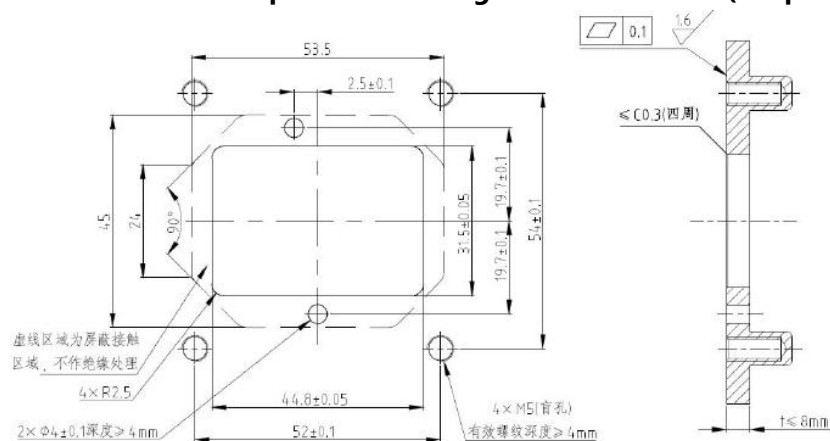
YGEV5-S2RA2插座总成外形(未注公差: ± 0.5)

YGEV5-S2RA2 Receptacle assembly outline (unspecified tolerance: $\pm$



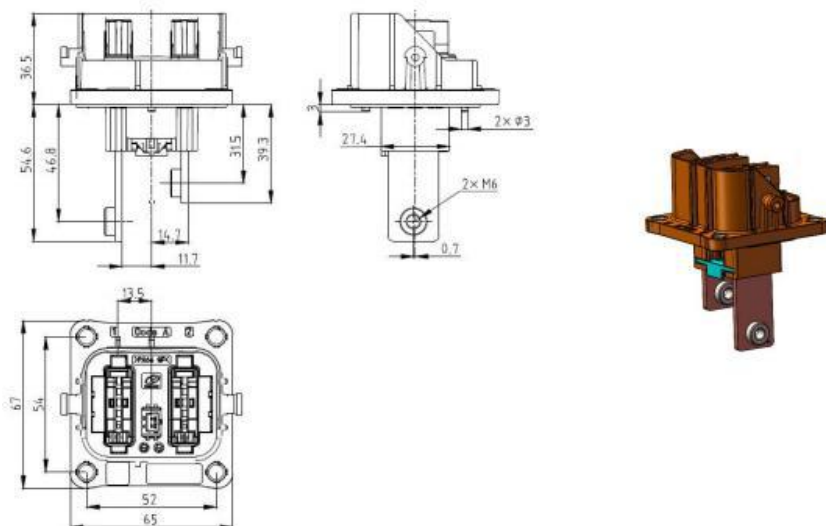
YGEV5-S2RA2插座安装开孔尺寸(未注公差: ± 0.1)

YGEV5-S2RA2 Receptacle mounting hole dimensions (unspecified tolerance: ± 0.1)



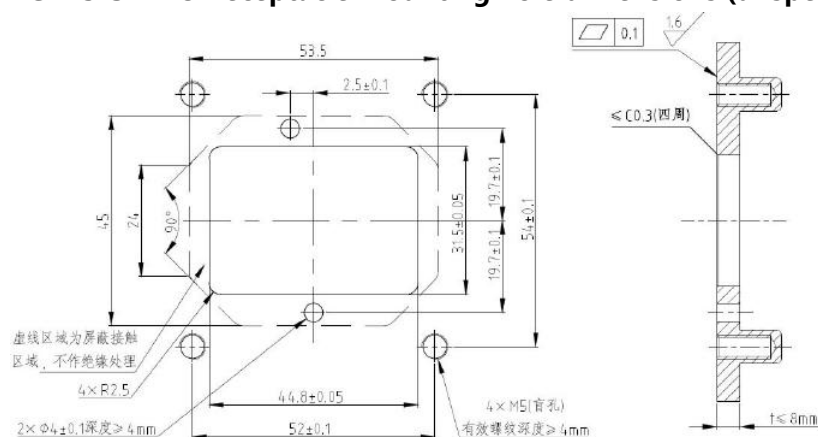
YGEV5-S2RA3插座总成外形(未注公差: ± 0.5)

YGEV5-S2RA3 Receptacle assembly outline (unspecified tolerance: ± 0.5)



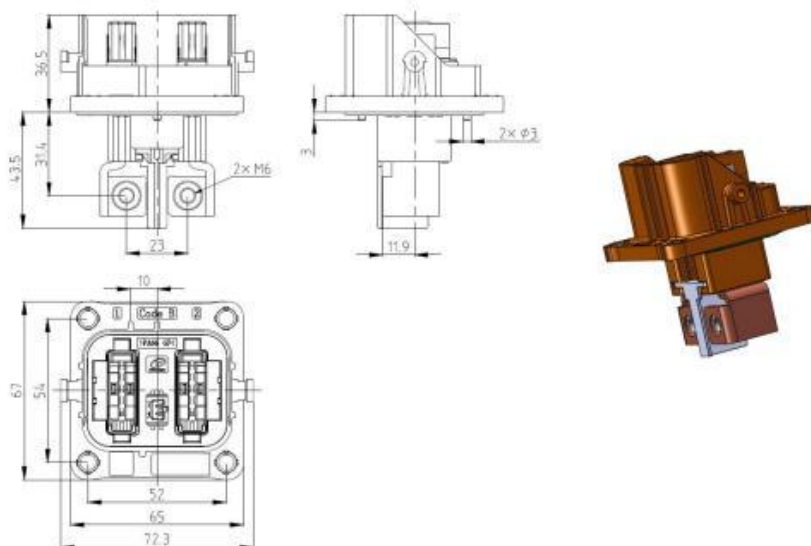
YGEV5-S2RA3插座安装开孔尺寸(未注公差: ± 0.1)

YGEV5-S2RA3 Receptacle mounting hole dimensions (unspecified tolerance: ± 0.1)



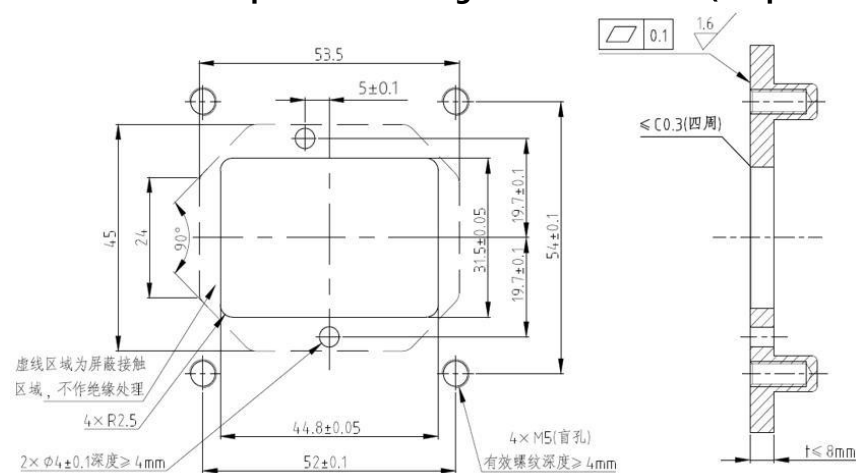
YGEV5-S2RB插座总成外形(未注公差: ± 0.5)

YGEV5-S2RB Receptacle assembly outline (unspecified tolerance: ± 0.5)



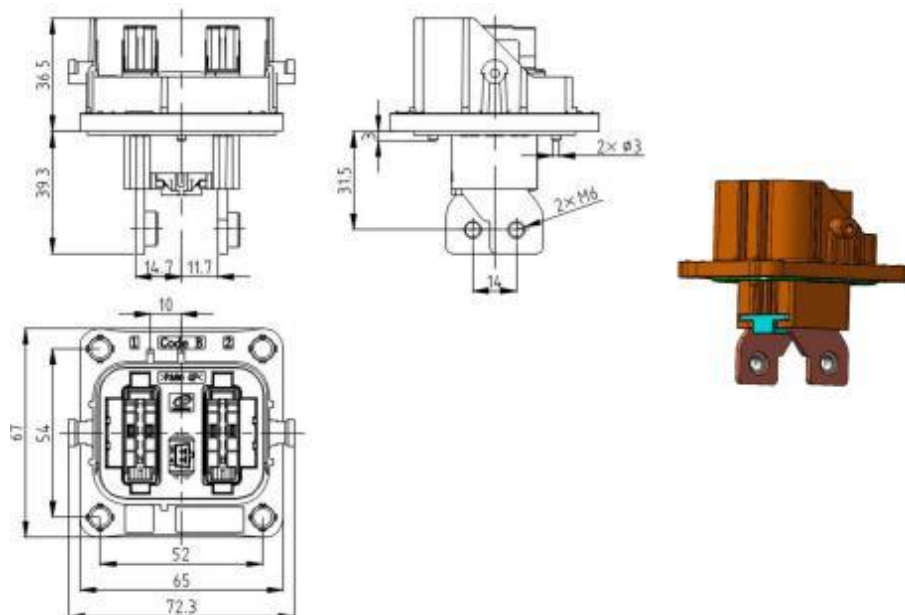
YGEV5-S2RB插座安装开孔尺寸(未注公差: ± 0.1)

YGEV5-S2RB Receptacle mounting hole dimensions (unspecified tolerance: ± 0.1)



YGEV5-S2RB4插座总成外形(未注公差: ± 0.5)

YGEV5-S2RB4 Receptacle assembly outline (unspecified tolerance: ± 0.5)



YGEV5-S2RB4插座安装开孔尺寸(未注公差: ± 0.1)

YGEV5-S2RB4 Receptacle mounting hole dimensions (unspecified tolerance: ± 0.1)

